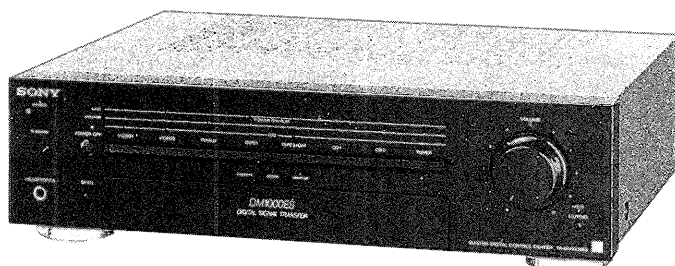


# TA-DM1000ES

## SERVICE MANUAL

*US Model  
Canadian Model*



This set is the master digital control center in DLS-M1.

**DST**

### SPECIFICATIONS

#### Amplifier Section

Frequency response	10 Hz – 20 kHz $\pm 0.1$ dB
Input sensitivity	150 mV, 50 kilo ohms
S/N	90 dB
Output voltage and output impedance	REC OUT: 150 mV, 470 ohms PRE OUT: 1.3 V, 50 ohms (nominal) HEADPHONES: 15 mV, 8 ohms; accepts low and high impedance headphones
Total harmonic distortion	Less than 0.015%

#### Video Section

Frequency response	50 Hz – 4.0 MHz
Video input sensitivity and input impedance	1 Vp-p, 75 ohms
Video output voltage and output impedance	1 Vp-p, 75 ohms

#### Converter Section

A/D converter	Type: High Density Linear Converter Sampling frequency: 44.1 kHz
PCM encoding system	CD format
RF audio transmission frequency width/channel	3 MHz
RF audio modulation system	2 PSK modulation
RF video transmission frequency width/channel	10 MHz

#### General

Power requirements	120 V AC, 60 Hz
Power consumption	Power on: 35 watts Standby: 12 watts
AC outlets	Six switched, total 900 watts
Dimensions (w/h/d)	Approx. 430 $\times$ 123 $\times$ 360 mm (17 $\times$ 4 $\frac{7}{8}$ $\times$ 14 $\frac{1}{4}$ inches)
Weight	Approx. 7.3 kg (16 lb 2 oz)



**MASTER DIGITAL CONTROL CENTER**  
**SONY®**

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2-7.	Removal of Analog Board .....	29			

## SAFETY CHECK-OUT

After correcting the original service problem, perform the following safety checks before releasing the set to the customer:

### LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.
3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2 V AC range are suitable. (See Fig. A)

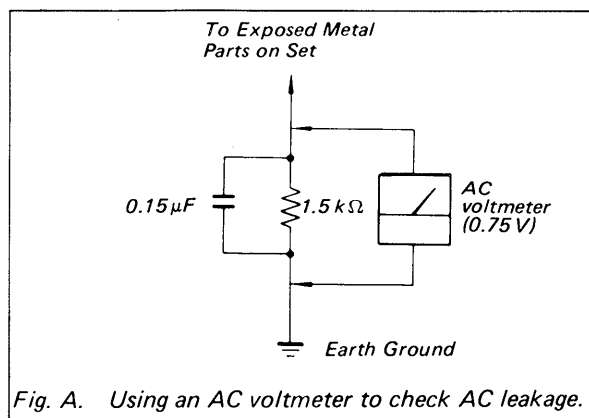





Fig. A. Using an AC voltmeter to check AC leakage.

### SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY MARK  OR DOTTED LINE WITH MARK  ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

### ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE MARQUE  SUR LES DIAGRAMMES SCHÉMATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REMPLACER CES COMPOSANTS QUE PAR DES PIÈCES SONY DONT LES NUMÉROS SONT DONNÉS DANS CE MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR SONY.

This section is extracted from instruction manual.

## SECTION 1 GENERAL

### Preliminaries

## Introduction

### How to Use This Manual

This manual is arranged to help you quickly find the information you need for the operation of the Digital Signal Transfer™ System. This manual consists of the following sections.

- 1 Preliminaries
- 2 Connection
- 3 Before using the RM-P1 Remote Commander
- 4 Playback/reception
- 5 Recording
- 6 Other information

To become familiar with the Digital Signal Transfer™ System  
Start reading from the "Preliminaries". "Overview of the Digital Signal Transfer™ System" gives an example to explain how to use this system.

If you have the master digital control center, Digital Link™ Decoder Amplifier and other equipment already connected  
Start from "Before using the RM-P1 Remote Commander".

If the master digital control center, Digital Link™ Decoder Amplifier and other equipment have not been connected  
Start from "Connection".

### Before You Begin

- 1 Check that the following are in the carton.
  - Master digital control center TA-DM1000ES
  - Signal combiner MX-RF1
  - Remote Commander RM-P1
  - Size AA (R6) battery (3)
  - F-type connector (2)
  - Sony Infrared Remote Control System cable - audio type, 4-pin (6)
  - Sony Infrared Remote Control System cable - video type, mini (2)
  - Spacer (1)
  - Screwdriver (1): to adjust the ROOM NUMBER switch on the TA-DL100 Digital Link™ Decoder Amplifier
- 2 About the text of this manual
  - The supplied RM-P1 Remote Commander is always identified by its model name to avoid confusion with the remote commanders supplied for other equipment.
  - In the text, name of buttons and switches are written in capital letters or their symbol marks:  
Example: Press CD 1.
  - The operation explained in the text is based on the operation with the RM-P1 Remote Commander. If an operation is not possible with the RM-P1 Remote Commander, a note such as "This operation cannot be performed by the RM-P1 Remote Commander." appears in the text.

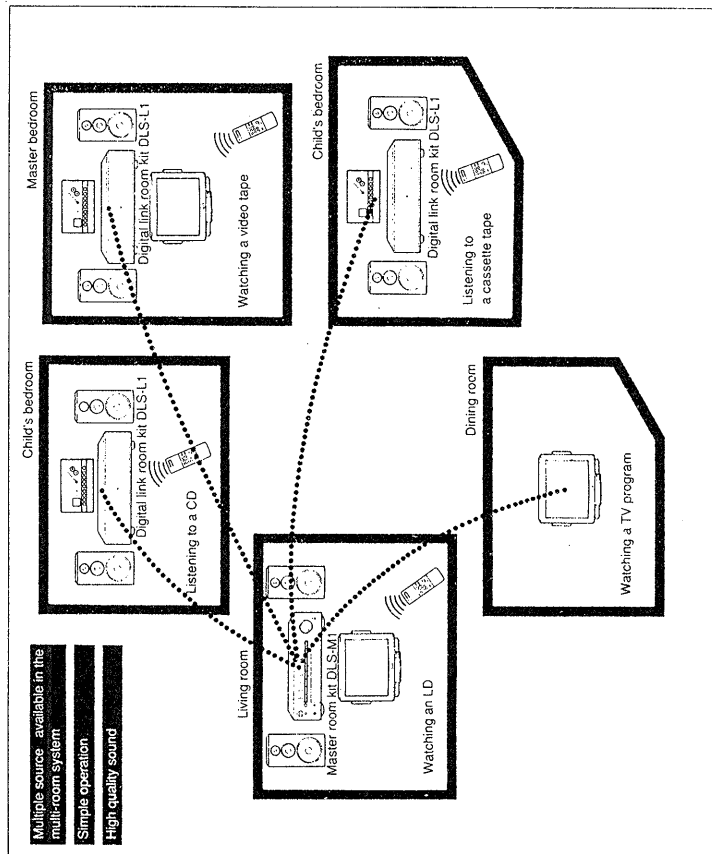
## Overview of the Digital Signal Transfer™ (DST) System

### Typical Configuration

The concept for DIGITAL SIGNAL TRANSFER™ System originated from a desire to develop a way to easily enjoy music or movie with a simple operation in any room of the house.

The system is designed to provide you the greatest enjoyment with the least amount of work. It will not be necessary to remember complex steps of operation or controls. Simply select the music you want to listen to or the movie you want to watch, adjust the volume, and the system will do the rest. This system allows you to enjoy high quality sound and picture wherever you are in the house, just by doing a simple operation.

The following illustration gives one example of how the DST system can be used.





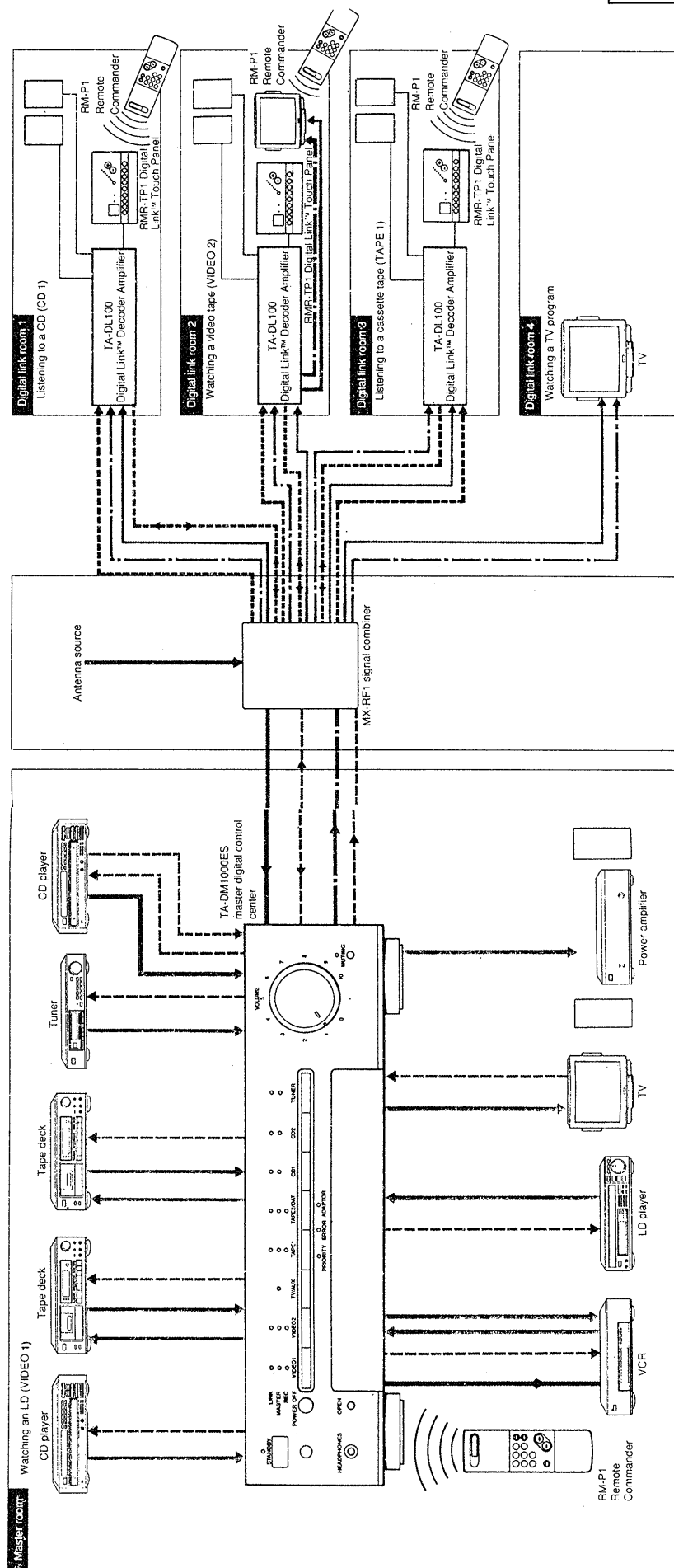
## Overview of the Digital Signal Transfer™ (DST) System

### Understanding the DST System:

The DST system transmits up to 3 digital audio signals, 1 analog audio/video signal and remote control signals through a 75-ohm coaxial cable\*. This system consists of the following main equipment:

- Master digital control center: transmits audio, video and remote control signals.
- DIGITAL LINK™ Decoder Amplifier: decodes audio and remote control signals transmitted from the master digital control center and transmits remote control signal.

\*75-ohm coaxial cable is a common shielded antenna wire and used as medium carrier.



## Overview of the Digital Signal Transfer™ (DST) System

### Features of the DST system:

- **Multi-room and multiple source transmission**
  - **Simultaneous transmission of 3 digital audio sources plus the monaural audio signal of a video source**  
The DST system transmits simultaneously 3 audio sources as well as 1 video source. Three audio sources are transmitted digitally. One of the audio sources is input at 44.1 KHz, and the other audio sources are transmitted by first being converted from analog to digital. A video source is transmitted by the amplitude modulation.
  - **System expandability**  
Up to 16 Digital Link™ Decoder Amplifier can be connected to the DST system as auxiliary locations of control.
  - **Independent operation**  
A Digital Link™ Touch Panel in each digital link room is provided with program source selection and level setting, buttons which allows independent remote room control.
- **Digital transmission through 75-ohm coaxial cable**
  - **High quality of sound**  
Digital transmission of the DST system reproduces high quality sound, reducing the distortion and signal noise inherent in conventional analog multi-room systems.
  - **Signal transmission through a single cable**  
Audio, video and remote control signals are transmitted through a single 75-ohm coaxial cable.
- **Efficient installation**  
The DST system uses readily available 75-ohm coaxial cable as transmission carrier.

### Other Features

- **Intelligent Remote Commander**  
RM-P1 Remote Commander (supplied) allows you to control the system whether Sony or other manufacturers' equipment is connected. Once you have programmed the remote control signals on the master digital control center, the RM-P1 Remote Commander enables not only program source selections and level settings but also a variety of advanced operations such as fast-forwarding of tape.  
In addition, the RM-P1 Remote Commander is provided with a display window which allows you to confirm the selected program source and the transmission of remote control signals.
- **Priority to perform various operations**  
Priority is assigned to a variety of operations to avoid mixing up the remote control signals. These operations are available only in the room with priority.
- **Visible status information**  
Indicators showing the status of the DST system are provided on the master digital control center.

## Precautions

### On Safety

- Operate the unit only on 120V AC, 60 Hz.
- Should any solid object or liquid fall into the cabinet, unplug the unit and have it checked by qualified personnel before operating it any further.
- Unplug the unit from the wall outlet if it is not to be used for an extended period of time. To disconnect the cord, pull it out by grasping the plug. Never pull the cord itself.
- One blade of the plug is wider than the other for the purpose of safety and will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, contact your dealer.

### On Operation

Before making program source connections, be sure to unplug the unit.

### On Cleaning the Cabinet

Clean the cabinet, panel and controls with a soft cloth lightly moistened with mild detergent solution. Do not use any type of abrasive pad, scouring powder, or solvent such as alcohol or benzene.

### On Installation

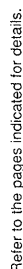
- **To prevent internal heat built-up in the unit**  
Place the unit in a location with adequate air circulation.
  - Do not install the unit:
    - near heat sources such as radiator or air ducts
    - in a place subject to direct sunlight, excessive dust, mechanical vibration or shock.
- **Do not place anything on the top of the cabinet.**  
The top ventilation holes must be unobstructed for the proper operation of the unit and to prolong the life of its components.
- **Do not throw away the carton and packing material.**  
It will be an ideal container when transporting the unit.

### For the Customers in the U.S.A.

For detailed safety precautions, see the "IMPORTANT SAFEGUARDS" leaflet.

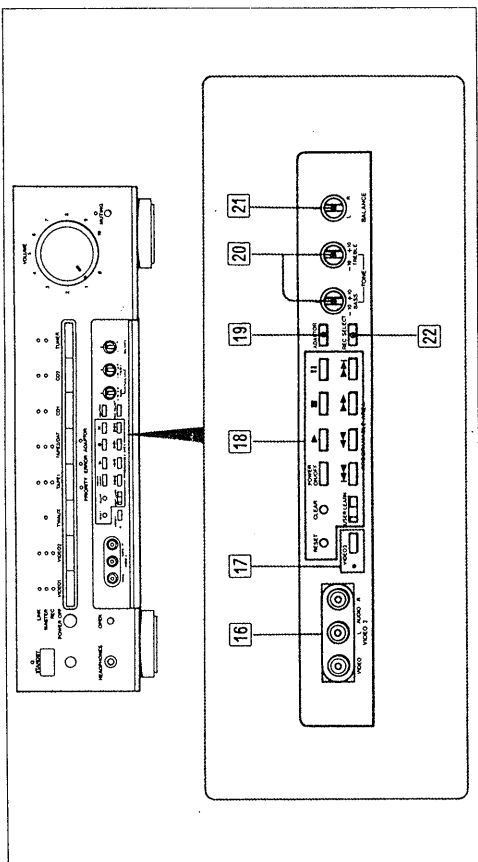
If you have any question or problem concerning your unit, please consult your nearest Sony ES dealer.

## Front











































- 1 **IR SENSOR**  
Put the head of another manufacturer's remote commander to program its remote control signal on this master digital control center. 34
- 2 **Remote control sensor**  
Point the head of the RM-P1 Remote Commander (supplied) here. 35
- 3 **STANDBY indicator**  
Blinks for about 10 seconds when the power of the system turns on, then goes off. Lights when the power of the system turns off. 36
- 4 **POWER OFF button**  
Press to turn off the power of this master digital control center. 37
- 5 **LINK indicators**  
When you or someone else selects a program source in a digital link room, the indicator of the selected source lights. Up to four indicators can light at the same time. 44
- 6 **MASTER indicators**  
When you select a program source in the master room, the indicator of the selected source lights. 44
- 7 **REC indicators**  
When you press REC SELECT to start recording, the indicators of the equipment onto which you can record blink. Select equipment to record the program source. 46
- 8 **VOLUME control knob**  
Controls the audio level from PRE OUT and HEADPHONES jacks. 46
- 9 **REDUCES SOUND temporarily to a low level (-20 dB attenuation).**  
Reduces the sound temporarily to a low level (-20 dB attenuation). 47
- 10 **HEADPHONES Jack**  
Accepts the stereo phone plug of headphones. To listen to the program source only with the headphones, turn off the power amplifier. 47
- 11 **OPEN button**  
Press to open the panel. 48
- 12 **Function buttons**  
Turns on the power of this master digital control center and selects a program source. 48
- 13 **PRIORITY indicator**  
Lights when the master room has the priority. When you or someone else obtains the priority by pressing PRIORITY in a digital link room, this indicator goes off 43
- 14 **ERROR indicator**  
Lights when this master digital control center is not connected correctly to the signal combiner and/or a Digital Link™ Decoder Amplifier(s). 45
- 15 **ADAPTOR indicator**  
Lights when you press ADAPTOR to listen to the sound from the equipment connected to ADAPTOR jacks. 45

## Inside the panel



Refer to the pages indicated for details.

- 16 VIDEO 3 input jacks**  
Connect video equipment such as a video camera recorder.
- 17 VIDEO 3 button and indicator**  
Press to select the program source connected to VIDEO 3 jacks.
- 18 Programmable buttons for other manufacturers' remote commander 33**  
RESET: Press if the remote control operation does not function. 34  
CLEAR: Clears all programmed signals regardless of program source. 34  
USER/LEARN selector: Set to LEARN to program remote control signals of other manufacturers' equipment, except the ones for TUNER, TV/AUX and VIDEO 3. Set to USER to operate the connected equipment. 34  
POWER ON/OFF:                                           

Connections

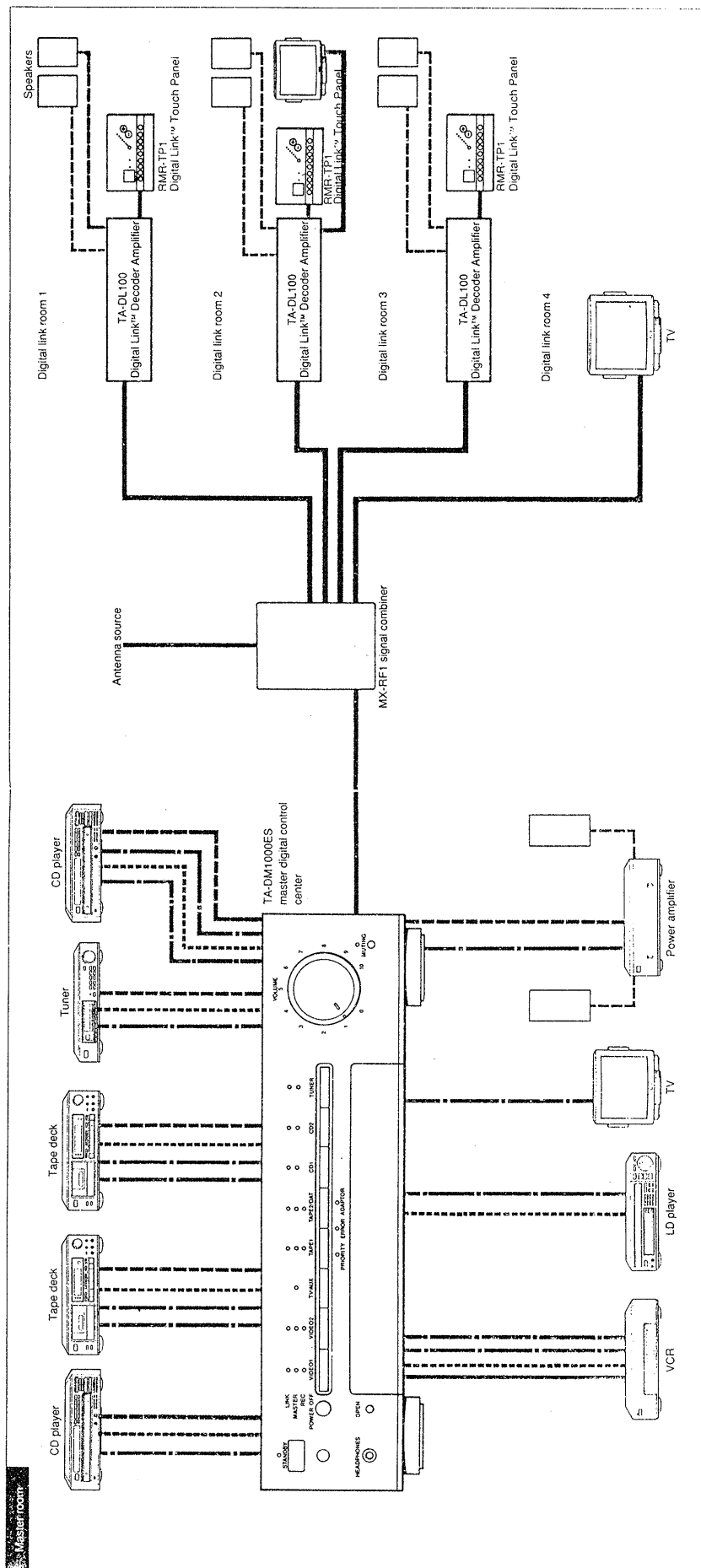
# System Configuration

Here is a typical system configuration. Connect each piece of equipment referring to the pages that follow this section.

- 75-ohm coaxial cable (not supplied)
- Audio/video connecting cable (not supplied)
- Optical cable (not supplied)
- Sony Infrared Remote Control System cable (supplied, 4-pin type)
- Sony Infrared Remote Control System cable (supplied, mini type)
- AC power cord of each piece of equipment
- DIN cable of Digital Link™ Touch Panel
- Speaker cord (supplied for speakers)

## Precautions

- Do not remove any enclosure of the unit when connecting or installing the equipment. Refer to installation which requires opening of the unit to your nearest Sony ES dealer.
- When any wiring of the 75-ohm coaxial cable is required, consult your nearest Sony ES dealer.
- Installation of the 75-ohm coaxial cable should be performed in accordance with National Electrical Code and all applicable local codes.
- Before connection, be sure to turn off all equipment.
- Insert the plug fully. Loose connection may cause the noise.
- To disconnect the cord, pull it out by the plug. Never pull the cord itself.
- If noise occurs, leave enough space between each piece of equipment.
- Refer to the operating instructions of the corresponding equipment for connection.



# Connecting the Signal Combiner and Digital Link™ Decoder Amplifier

## When Installing the MX-RF1 Signal Combiner on the Wall

Locate a space large enough to accommodate the unit and accessible enough to connect the necessary coaxial cables.

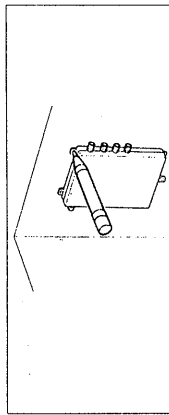
### Note

Be sure to complete installation before connecting the 75-ohm coaxial cables.

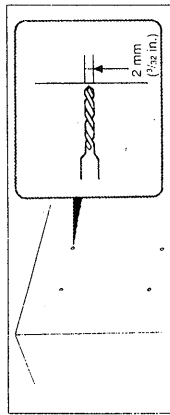
### If the space selected is a wooden surface

Use the four wood screws (5/16 in., 1 1/2 in. length).

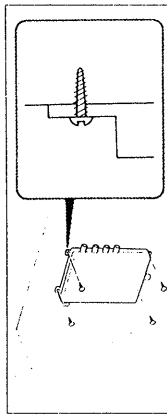
- 1 Mark the mounting hole locations.



- 2 Make four pilot holes approx. 2 mm (3/32 in.) in diameter for the wood screws, using a nail set or drill.

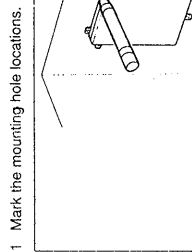


- 3 Place the MX-RF1 signal combiner on the surface and tighten the screws.

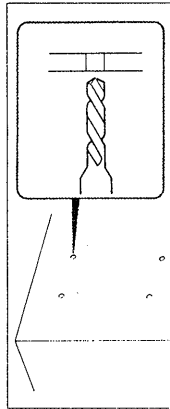


### Note

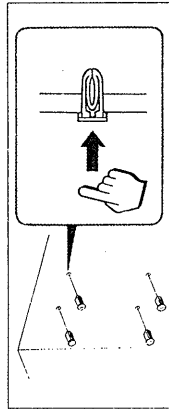
Install the signal combiner on the wall of at least 10 mm (3/16 in.) thickness.



- 2 Make four pilot holes whose diameter is suitable for the screw anchor.

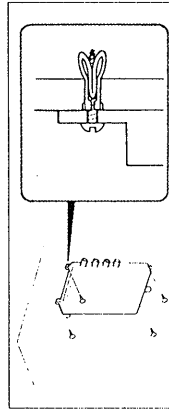


- 3 Push the screw anchor into the hole. Be sure not to push the screw anchor completely through the wallboard. The screw anchor should be inserted until it is flush with the wallboard.



- 4 Repeat step 3 for other mounting holes.

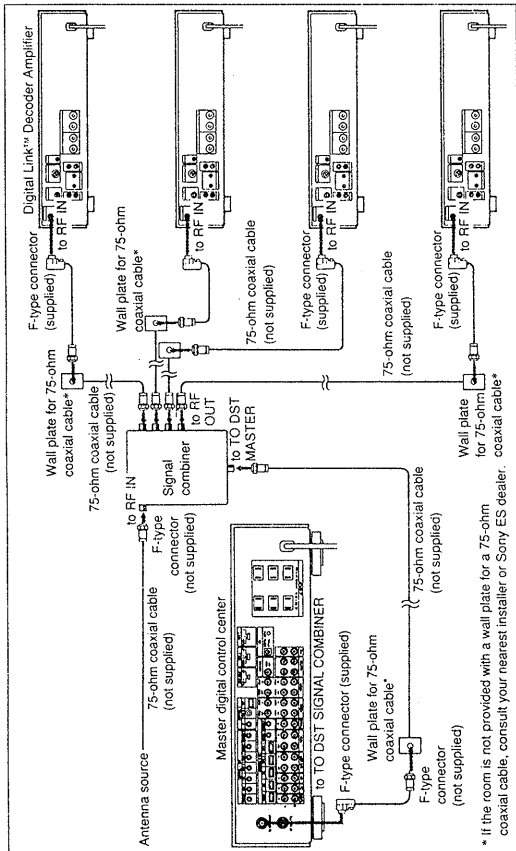
- 5 Place the MX-RF1 signal combiner on the surface and start a screw into the screw anchor. Be careful not to exert too much inward pressure on the screw anchor or you may push it completely through the wall.



- 6 Complete the above process for the remaining screws.

## When Connecting Four Digital Link™ Decoder Amplifiers or Fewer

Up to four digital link rooms can be connected to the DST system.



\* If the room is not provided with a wall plate for a 75-ohm coaxial cable, consult your nearest installer or Sony ES dealer.

### Cable type and length

To obtain visible pictures, we strongly recommend the following cable.

Type	Length	Signal combiner to center to signal amplifier	Signal combiner to digital link decoder amplifier
RG-59 or better	Up to 40 m (Approx. 131 ft.)	Up to 4.3 m (Approx. 141 ft.)	Up to 4.3 m (Approx. 141 ft.)

Do not use a cable with a grade worse than RG-59. Visible pictures cannot be obtained with such a cable.

How to attach the F-type connector (supplied/not supplied)

See page 17.

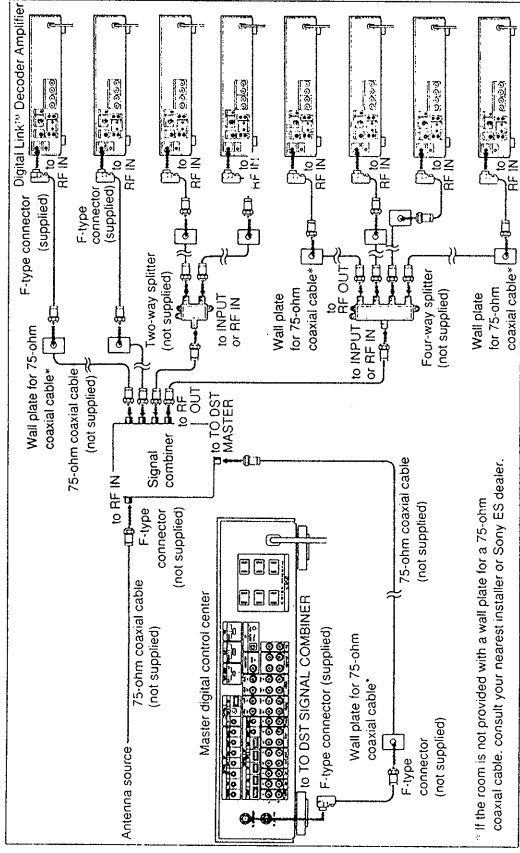
### Caution

Be sure to connect the TO DST SIGNAL COMBINER jack of the master digital control center with the TO DST MASTER jack of the signal combiner. If other equipment is connected to the TO DST SIGNAL COMBINER jack, the equipment may be damaged.

Connecting the Signal Combiner and Digital Link™ Decoder Amplifier

When Connecting More Than Four Digital Link™ Decoder Amplifiers

A splitter (not supplied) is required. The use of four four-way splitters enables up to 16 digital link rooms to be connected to the DST system.



\* If the room is not provided with a wall plate for a 75-ohm coaxial cable, consult your nearest installer or Sony ES dealer.

Usable splitter

Use a splitter that can transmit an RF signal of 10 to 900 MHz. In addition, a splitter with high signal isolation (more than 20 dB) and low insertion loss is recommended.

Cable type and length

When using splitter(s), the following type and length of cable is recommended.

Type	Two-way splitter	Four-way splitter*
Length of signal combiner to digital link decoder amplifier (through splitter)	Up to 29 m (Approx. 95 ft.)	Up to 16 m (Approx. 52 ft.)

Using four four-way splitters, 16 digital link decoder amplifier can be connected.

How to attach the F-type connector (supplied not supplied)

See page 17.

Notes

- Install each splitter at a distance of up to 1 m (3.2 ft.) from the signal combiner. If a splitter is located more than 1 m (3.2 ft.) away from the signal combiner, visible pictures cannot be obtained.
- Do not connect more than 16 Digital Link™ Decoder Amplifiers. Otherwise, the DST system may function incorrectly.

Before Connection

Before connection, you must attach an F-type connector to each end of the coaxial cable.

Attaching the F-type connector (supplied)

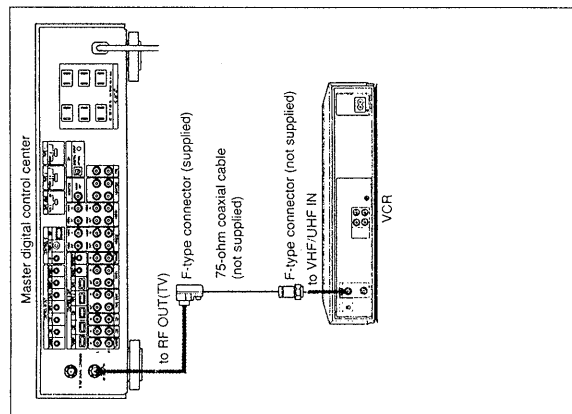
- 1 Open the lid.
- 2 Strip the cable.  
① Strip 18 mm (2/32 inch) of the black polyvinyl jacket.  
② Fold back the woven wire.  
③ Strip 10 mm (1/2 inch) of the white plastic leaving 10 mm of the center conductor.
- 3 Loosen the screws and insert the cable.
- 4 Remove the ring. (Put it on the projection on the lid.)
- 5 Coil the center conductor.
- 6 Snap the lid into place.
- 7 Insert the F-type connector into TO DST SIGNAL COMBINER or RF OUT on the master digital control center.

Attaching the F-type connector (not supplied)

- 1 Strip 17 mm (11/16 inch) of the black polyvinyl jacket.
- 2 Fold back the woven wire.
- 3 Strip 12 mm (1/2 inch) of the white plastic leaving 12 mm of the center conductor.
- 4 Slip the crimping ring over the cable.
- 5 Insert the inner conductor into the F-type connector shaft and push the end of the cable into the connector as far as it will go.
- 6 Slide the crimping ring over this assembly. Then pinch the crimping ring with pliers to hold the connection in place.
- 7 Cut the center conductor leaving 3 mm (1/8 inch) from the end.
- 8 Insert the F-type connector into TO DST MASTER, RF IN or RF OUT. Screw and tighten the connector firmly to the jack.

## Connecting a VCR, Tuner or TV

### Connecting a VCR

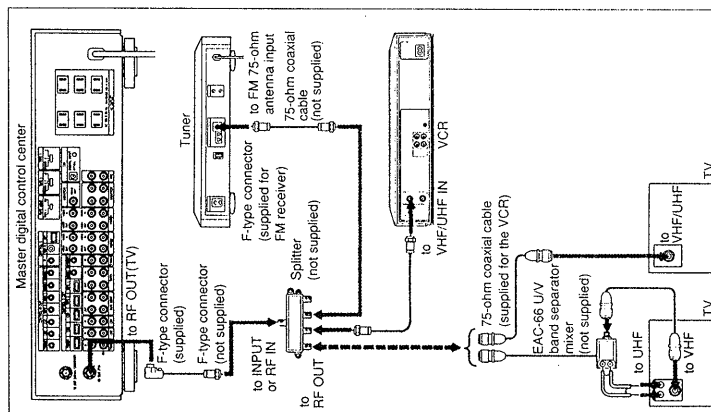


When you connect a TV with a VCR, refer to the operating instructions of the VCR.

How to attach the F-type connector (supplied/not supplied)  
See page 17.

### Connecting a Tuner or TV

When you connect a tuner in the master room, use a splitter (not supplied) as illustrated on the next page. RF signals can be transmitted in parallel to a VCR and tuner. If you connect a TV as illustrated on the next page, you can watch CATV programs in the master room. Be sure to connect the TV to the MONITOR OUT jack of the master digital control center even in this case. (See page 22.)

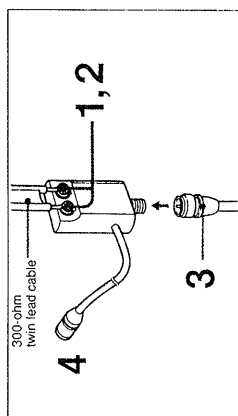


How to attach the F-type connector (supplied/not supplied)  
See page 17.

How to attach the EAC-66 UV band separator/mixer (not supplied)  
See the right column.

Attaching the EAC-66 UV band separator/mixer (not supplied)

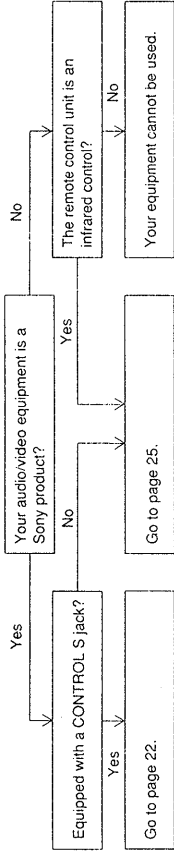
- 1 Loosen the screws on the UV band mixer/separators.
- 2 Fit the 300-ohm twin lead cable on the UHF antenna under the screws.
- 3 Connect the 75-ohm coaxial cable to the UV band mixer separator.
- 4 Connect the UV band mixer/separators to RF OUT on the splitter.



Before Connecting Your Audio/Video Equipment to the Master Digital Control Center

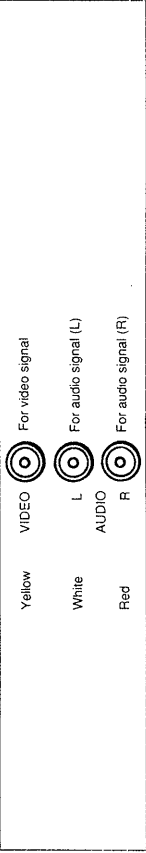
Making Sure That Your Audio/Video Equipment Can Be Connected to the Master Digital Control Center

Using the following flow chart, first make sure that your audio/video equipment can be connected to the master digital control center, and proceed with connections.



About the Input/Output Jacks

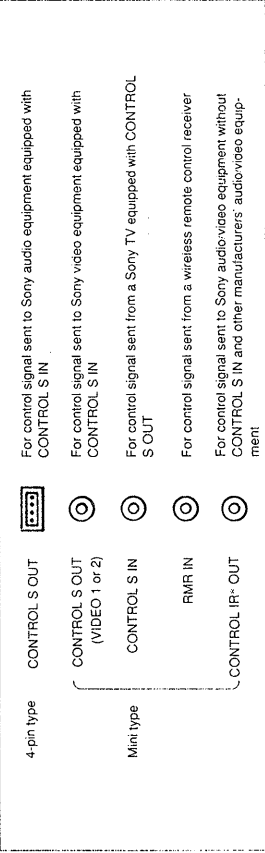
**For audio/video signals**  
VIDEO and AUDIO jacks are distinguished by color. Connect the cord so that the color of each plug corresponds to that of the jacks on the master digital control center and on the other equipment.



**For optical signal**  
This master digital control center is equipped with a digital input jack for a CD player connected to the CD 1 jack. Connect to a CD player equipped with a digital (optical) output jack.



**For control signals**  
This master digital control center is equipped with two types of control input/output jacks. Each jack has the indication designating the equipment to be connected. Do not connect equipment other than that indicated.



\* IR is the abbreviation of Infrared Remote control system.

Recommended Connecting Cords

For connecting cords that are not supplied, the use of the following typical ones is recommended. Use a suitable cord according to the layout of your equipment.

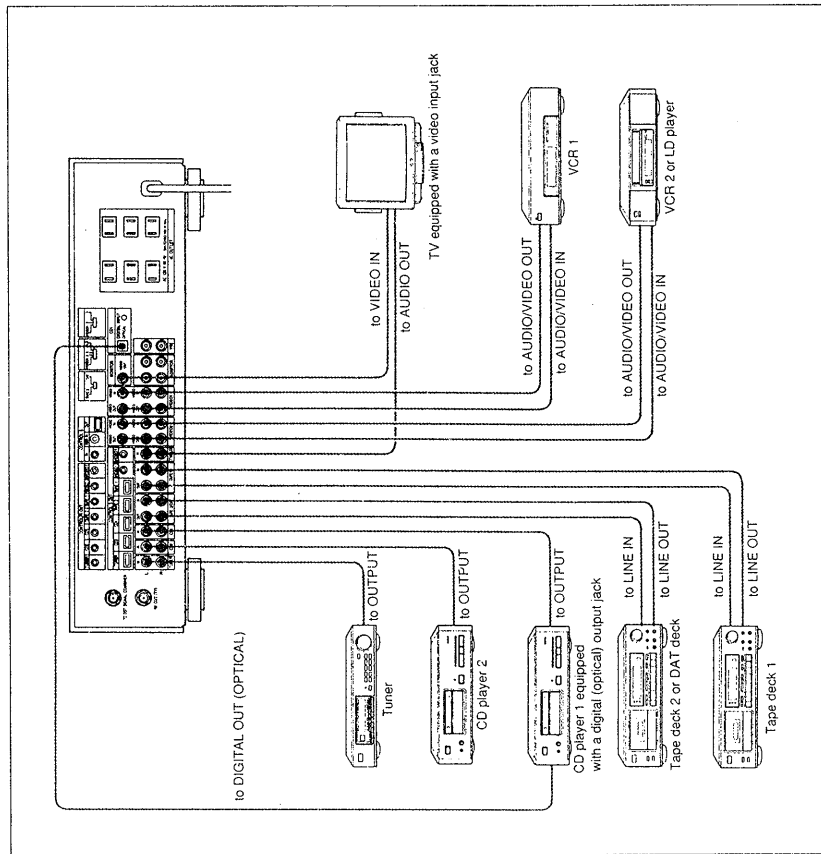
VMC-810S (1 m/3 ft 3 in)	Video and audio (stereo) input/output Phono plug (x3)
VMC-820S (2 m/6 ft 6 in)	Phono plug (x3)
RK-C74 (1.5 m/4 ft 11 in)	Audio input/output (stereo) Phono plug (x2)
RK-C78 (2 m/6 ft 6 in)	Phono plug (x2)
VMC-1S (1.2 m/3 ft 9 in)	Video input/output Phono plug (yellow)
VMC-3S (3 m/9 ft 9 in)	Phono plug (yellow)
POC-1S (1.5 m/4 ft 11 in)	Optical input/output Optical plug
RK-G69 (1 m/3 ft 3 in)	Sony control signal input/output Mini plug



## Connecting Audio/Video Equipment

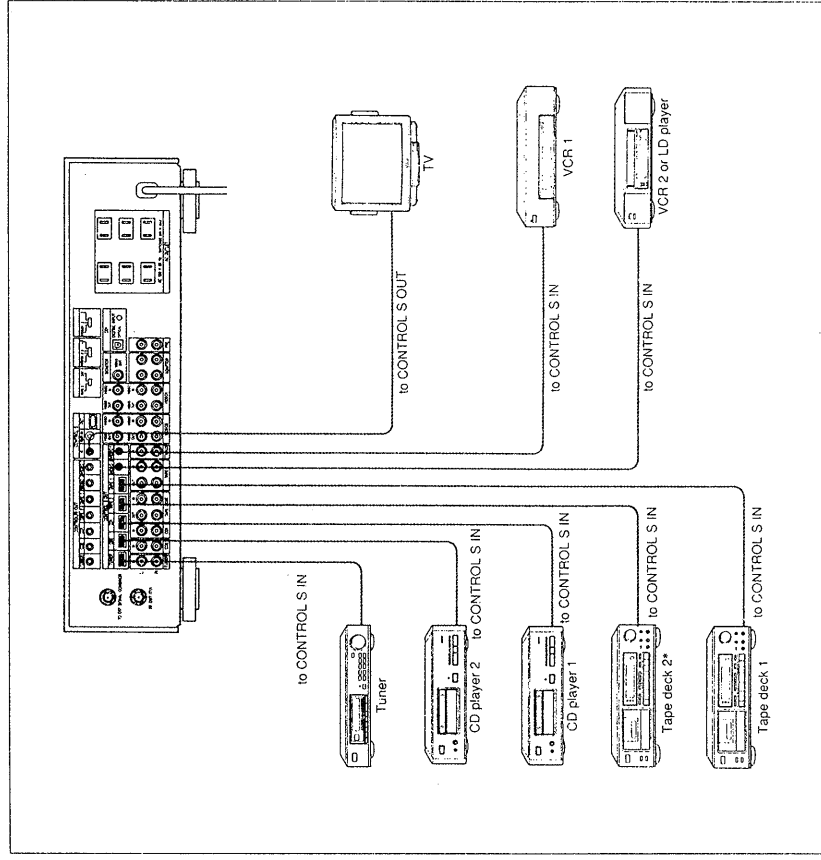
### Connecting Sony Audio/Video Equipment Equipped with CONTROL S IN Jack

Connecting audio/video cords



22

Connecting remote control cords



#### Notes

- Be sure to connect the equipment which corresponds to the indication on the jack. If equipment other than that indicated is connected, the remote control for that equipment does not function.
- When you connect a DAT deck without a CONTROL S IN jack, connect the DAT deck with cable having an LED emitter. (See page 23.)

23

Connecting Audio/Video Equipment

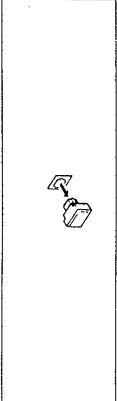
Connecting a TV

- Be sure to connect the TV to the MONITOR OUT jack with a video connecting cord. Otherwise, you cannot watch a video playback picture on the TV.
- When the control signal cord is connected as illustrated on page 23, you can control the DST system by pointing the RM-P1 Remote Commander to the remote control sensor of the TV. Note that the remote control sensor of the master digital control center cannot receive control signals in this case.
- When your TV does not have the CONTROL S OUT jack, we recommend the use of a wireless remote control receiver. (See page 28.) In this case, put the wireless remote control receiver near the TV and point the RM-P1 Remote Commander in the direction of the wireless remote control receiver and TV.

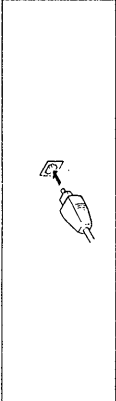
Connecting a CD player equipped with a digital output to the CD 1 jack

- Connect a CD player which has a parallel output of digital and analog signals.
- Be sure to connect the CD player both to CD 1 IN (phono) and CD 1 DIGITAL INPUT (optical). The phono jack receives the audio signal to be played in the master room and optical jack receives the audio signal to be played in a digital link room.

1 Remove the protecting plug.



2 Insert the plug.



Position of the selectors on the rear panel

When you have connected Sony equipment to this master digital control center, set the selectors on the rear panel according to the following chart.

For tape deck or DAT deck connected to TAPE 2

Connected equipment	Position to be set
Tape deck	DECK
DAT deck	DAT

For the equipment connected to VIDEO 1 or VIDEO 2

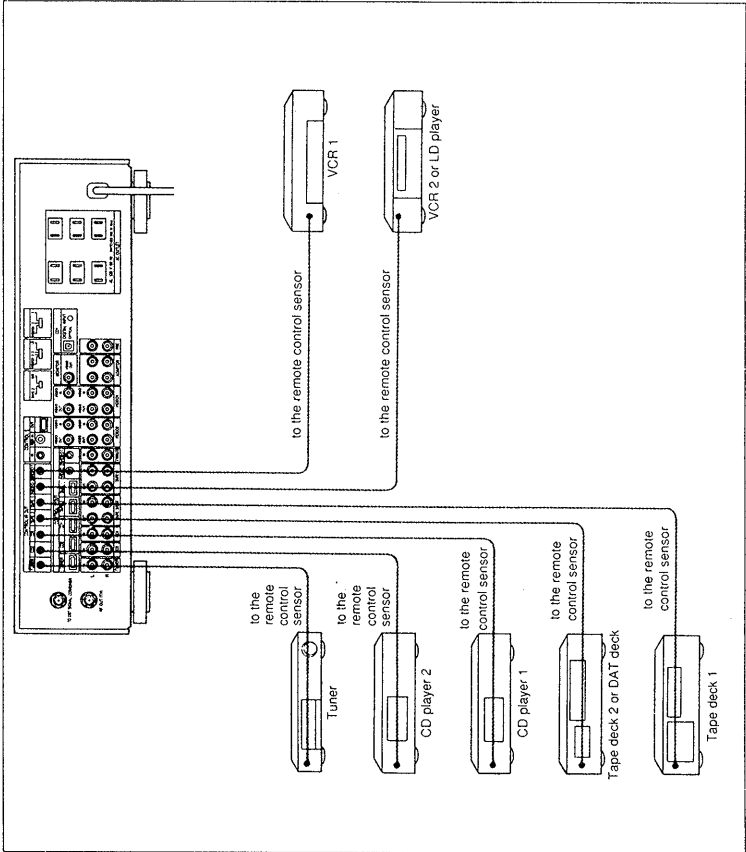
Connected equipment	Position to be set
Beta VCR or the VCR whose remote control mode you set to 1.	VTR 1
8mm VCR or the VCR whose remote control mode you set to 2.	2
VHS VCR or the VCR whose remote control mode you set to 3.	3
LD player or MD (multi disc) player	LD

Connecting Sony Audio/Video Equipment without CONTROL S IN Jack or Other Manufacturers' Audio/Video Equipment

Connecting audio/video cords  
Refer to page 22.

Connecting remote control cords

Use a cable having an LED emitter for one end and a mini plug for the other end (not supplied). See the next page.



Notes

- Be sure to connect the TV to the MONITOR OUT jack with a video connecting cord. Otherwise, you cannot watch a video playback picture on the TV.
- Do not connect another manufacturer's tuner. Only Sony tuners can be controlled by the RM-P1 Remote Commander.
- If Sony equipment is newly connected to the CONTROL IR OUT jack after another manufacturer's one has been connected, you must clear the previous remote control setting from the RM-P1 Remote Commander. (See page 34. "To clear all programmed signals.") The remote control signal setting is automatically reset to control Sony equipment.

## Connecting Audio/Video Equipment

Attaching an LED emitter to the remote control sensor of your audio/video equipment

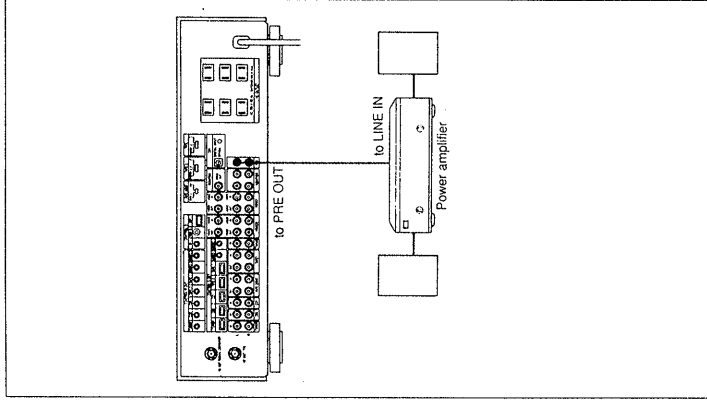
Attach the LED emitter with opaque adhesive tape so that the eye of the LED emitter will be facing the remote control sensor.

Be sure to cover the entire remote control sensor with opaque adhesive tape. Otherwise, your audio/video equipment may receive the signal from the RM-P1 and malfunction.

## Connecting a Power Amplifier or FM Receiver

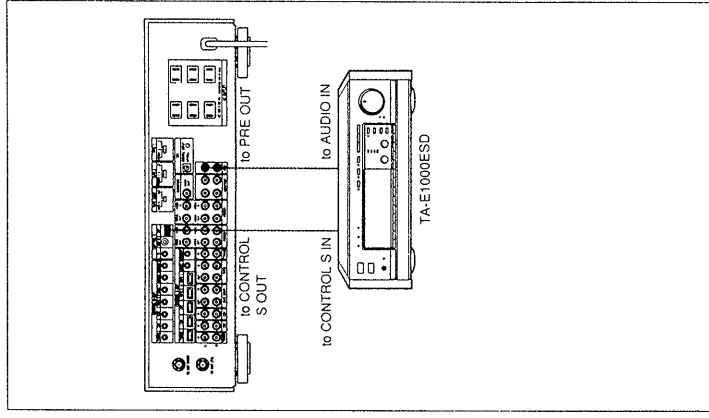
### Connecting a Power Amplifier Other Than the TA-E1000ESD

Connect a power amplifier to listen to sound from speakers.



### Connecting the TA-E1000ESD Amplifier

When the control cord is connected as illustrated below, you can control the TA-E1000ESD by pointing the remote commander (supplied for the TA-E1000ESD) at the remote control sensor of the master digital control center.



Notes on connecting the TA-E1000ESD amplifier

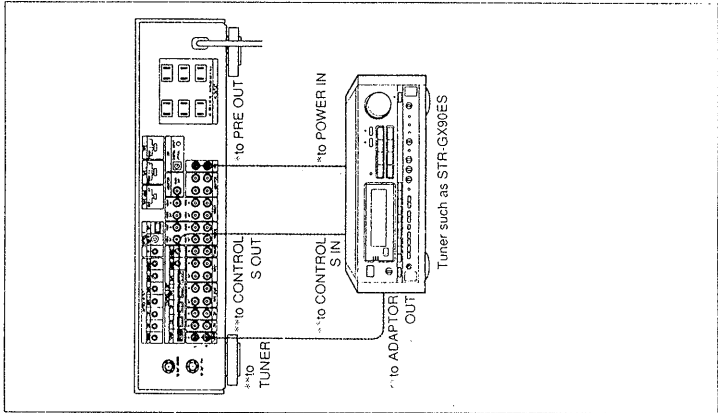
- Select a function except PHONO on the TA-E1000ESD amplifier.
- Set the volume control knob on the TA-E1000ESD amplifier at a medium level. Then, adjust the volume on the master digital control center at a desired level.

Connecting Other Equipment

Connecting a Power Amplifier or FM Receiver

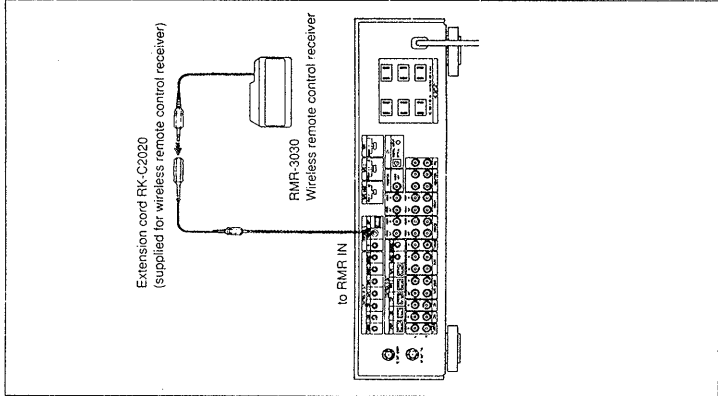
Connecting an FM Receiver Equipped with CONTROL S IN and POWER IN Jacks

- When the control signal is connected as illustrated below, you can control the FM receiver by pointing the remote commander (supplied for the FM receiver) at the remote control sensor of the master digital control center.
- When you use the FM receiver as a power amplifier only, make connection marked \*.
  - When you use the FM receiver as a tuner only, make connection marked \*\* and select TUNER for the function on the FM receiver.
  - When you use the FM receiver as a power amplifier and tuner, make both connections and select TUNER for the function on the FM receiver.

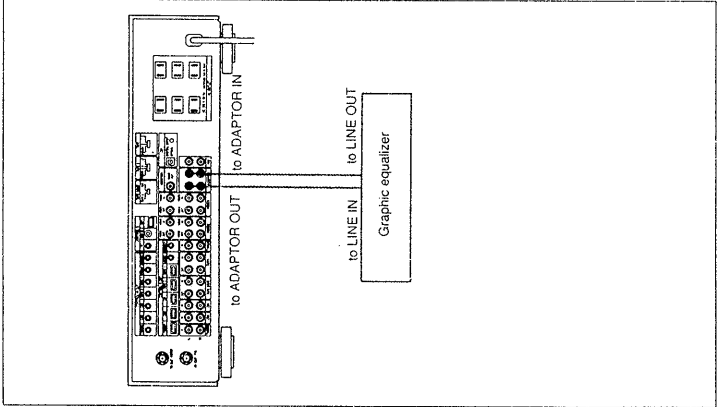


Connecting a Wireless Remote Control Receiver Such As the RMR-3030K

- When the master digital control center is installed in a hidden location, for example, behind the cabinet, you can control the DST system by pointing the RM-P1 Remote Commander to the wireless remote control receiver.
- When your TV does not have the CONTROL S OUT jack, put the wireless remote control receiver near the TV. You can control the DST system including the TV by pointing the RM-P1 Remote Commander in the direction of the wireless remote control receiver and TV.

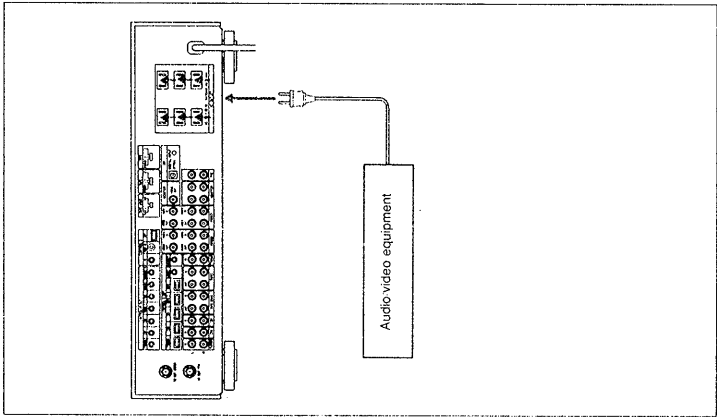


Connecting a Graphic Equalizer



Connecting the AC Power

- Connect the AC power of all equipment except the following:
- TV
  - VCR or LD player that can be turned on and off with remote control signal.

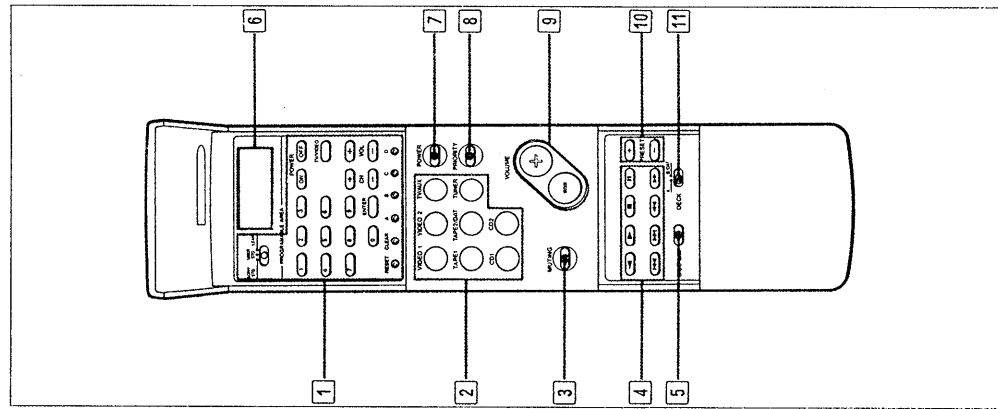
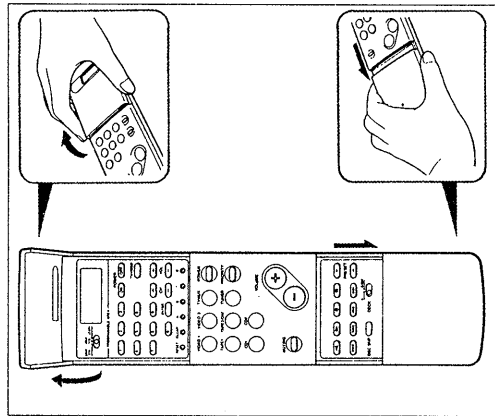


Notes

- Be careful that the total power consumption of the equipment connected to AC OUTLET does not exceed 300 watts.
- Do not connect electrical home appliances such as an electric iron or fan to these outlets.

## Parts Identification

How to open the lids of the Remote Commander

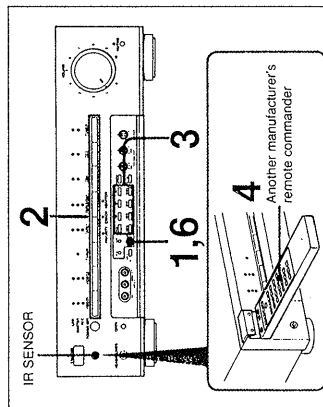


- 1 TV operation buttons**  
Mode selector: Set to SONY STD (standard) to operate a Sony TV. Set to USER STD to operate another manufacturer's TV after programming each signal to this Remote Commander. Set to LEARN to program the signals of the remote commander of another manufacturer's TV.  
Program number (1 to 0) and ENTER buttons: Select a TV channel.  
POWER ON and OFF buttons: Turns on and off the power of the TV.  
TV/VIDEO button: Selects the input signal for the TV installed in the master room, either a TV broadcast or VCR programs.  
CH (channel) +/- buttons: Select a preset TV channel.  
VOL (volume) +/- buttons: Adjust the TV volume.  
RESET button: Press if the remote control operation does not work correctly.  
CLEAR: Clears all programmed signals.  
A, B, C and D buttons: Program the remote control signal for a consecutive video playback operation.
- 2 Function buttons**  
Turns on the power of the system and selects VIDEO 1, VIDEO 2, TV/AUX, TAPE 1, TAPE 2/DAT, CD 1, CD 2 or TUNER.
- 3 MUTING button**  
Press to reduce the sound temporarily to a low level (~20dB attenuation). Press again to resume the sound.
- 4 Operation buttons for VIDEO 1, VIDEO 2, TAPE 1, TAPE 2/DAT, CD 1 and CD 2**  
◀: Playback of the reverse side of tape (only for Sony tape decks)  
▶: Playback  
■: Stop  
⏸: Pause  
◀◀◀: Selection search (only for LD or MD player, tape deck equipped with ▶▶▶▶ and CD player)  
▶▶▶▶: Fast winding or manual search
- 5 DISC SKIP button**  
Operable with a Sony CD player equipped with a multi-disc (5-disc) changer
- 6 Display window**  
Displays the selected program source, transmitting wave and the indication of weak batteries. All indications in the display window will go off on 1 hour after the last time you use the Remote Commander.
- 7 POWER OFF button**  
Turns off the power of the selected program source.
- 8 PRIORITY button**  
Activates operation buttons indicated in 1, 2 and 3. When you press this button, the PRIORITY indicator of the master digital control center or the Digital Link™ Touch Panel you control lights.
- 9 VOLUME +/- buttons**  
Adjust the audio level from the master digital control center or Digital Link™ Decoder Amplifier.
- 10 PRESET +/- buttons**  
Operable with a Sony tuner. Selects a higher/lower preset number.
- 11 Tape DECK selector**  
Selects A or B deck. When you select a DAT deck, set to B/DAT.



## Audio/Video Equipment Operation Block

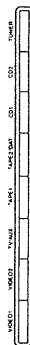
## How to Program Another Manufacturer's Remote Control Signals on the Master Digital Control Center



- 1** Set the USER/LEARN selector to LEARN. MASTER indicators blink except the ones on TV/AUX and TUNER. If you have already programmed any of the function buttons, its MASTER indicator lights.



- 2** Press the function button corresponding to the jack on which another manufacturer's equipment is connected.  
The MASTER indicator on the selected function button blinks.



- 3** Press the programmable button described on page 33.  
The MASTER indicator lights.



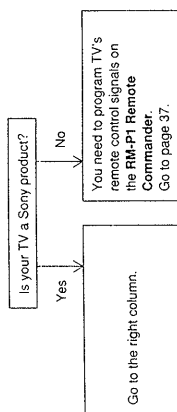
### After programming

**Enter programming**  
Operate the corresponding button on the RM-P1 Remote Commander to confirm that the designated signal has been programmed on the master digital control center.

## Notes on programming

- Be sure to program the remote control signal corresponding to the buttons indicated on the master digital control center. If a signal other than the indicated one is programmed, remote control operation may function incorrectly.

Check your TV.



## Programming Signals for Video Tape Playback Operation

Normally, to begin video playback you must press VIDEO 1 or VIDEO 2 and then select the video input source or the channel for video. By programming the buttons A to D\* on the RM-P1 Remote Commander, you can start video playback with just one press of the VIDEO 1/VIDEO 2 button.

For example, when you start video playback (VIDEO 1) in a digital link room, you need press VIDEO 1, channel 6, 6, and ENTER. However, once you programmed the buttons A to C, you can start video playback just by pressing VIDEO 1. This programming is applicable only to VIDEO 1 and VIDEO 2 functions.

## Notes

- If you have another manufacturer's TV, you cannot do this programming.
  - You may not operate some Sony TV for video playback even if you programmed the buttons A to C.
- In this case, press the buttons on the TV operation block to select the video input source or channel for video playback.
- \* This button is reserved for future use.

**Buttons to be programmed**

When using the RM-P1 Remote Commander in the master room

Button on the RM-P1 Remote Commander	A
Video input select button on the Sony TV's remote commander	VIDEO 1, VIDEO 2 or VIDEO 3*

When using the RM-P1 Remote Commander in a digital link room

Button on the RM-P1 Remote Commander	A	B	C
Channel button on the Sony TV's remote commander	6	6	ENTER

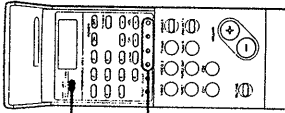
**Note on TV operation with the RM-P1 Remote Commander**

Note on TV operation with the RM-P1 Remote Commander:  
It is desirable to use one RM-P1 Remote Commander for one room (TV) because only one manufacturer's remote control signal is used.  
Besides Sony's can be programmed on the RM-P1 Remote Commander.

Select the button corresponding to the video signal input into the TV. If your Sony TV's remote commander has the TV:VIDEO button, this button cannot be programmed for video playback operation.

TV Operation Block

How to program Sony TV's remote control signals on the RM-P1 Remote Commander




1, 4

2

3 Repeat operation for each button to be programmed.

4 Set the mode selector to SONY STD.

To control a Sony TV




**Tips for programming**

Two remote commanders must:

- Be facing straight across from each other.
- Be placed at a distance of approx 5 cm (2 in.).
- Be immobile during programming operation.

1 Set the mode selector to LEARN.

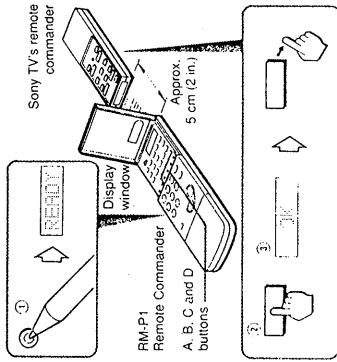


2 Program a signal.

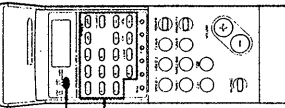
① Press and hold the button (A, B, C or D) for which the remote control signal will be programmed, with a pointed object such as a ball-point pen, until "READY" appears on the display window of the RM-P1.

② Press and hold the button of the TV's remote commander whose signal is to be programmed.

③ Remove your finger(s) from the button(s) after "OK" appears on the display window. If "ERROR" appears, go back to step 2 ①.



How to Program Another Manufacturer's Remote Control Signals on the RM-P1 Remote Commander




1, 4

2

3 Repeat operation for each button to be programmed.

4 Set the mode selector to USER STD or SONY STD.



**Tips for programming**

Two remote commanders must:

- Be facing straight across from each other.
- Be placed at a distance of approx. 5 cm (2 in.).
- Be immobile during programming operation.

1 Set the mode selector to LEARN.



2 Program a signal.

① Press and hold the button for which the remote control signal will be programmed until "READY" appears on the display window of the RM-P1.

② Press and hold the button of the other manufacturer's remote commander whose signal is to be programmed.

③ Remove your finger(s) from the button(s) after "OK" appears on the display window. If "ERROR" appears, go back to step 2 ①.



After programming

Operate the programmed button on the RM-P1 Remote Commander to confirm that the designated signal has been programmed.

If "ERROR" appears in step 2-③

The memory capacity is full. This occurs when other signals stronger than the remote control signals have been stored because the signals were programmed in a noisy environment or the remote commanders were placed too far apart from each other. In the above cases, clear the signals following the procedure described on next page and program again from the beginning under the proper conditions.

Notes on programming

- Remote control signals of equipment of manufacturers other than Sony can be programmed only when they are compatible with the infrared wireless remote control system. Since the programmable commander can program only the signals output from another remote commander, it cannot control equipment that does not use a remote commander. Also, note that there are some special remote control signals that cannot be programmed.
- Do not attempt to use the RM-P1 Remote Commander with an air conditioner or other household appliances.



## TV Operation Block

**To program a new signal onto a previously programmed button**  
Follow the programming procedure.  
The previously programmed signal is cleared and replaced by the new signal.

### To clear all programmed signals

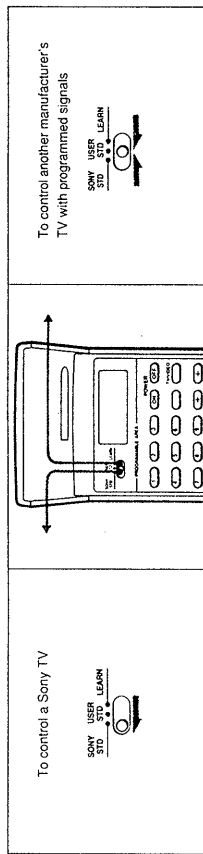
- 1 Set the mode selector to LEARN.
- 2 Press and hold CLEAR until "CLEAR" changes to "CLR OK" on the display window.

#### Note

It is not possible to clear the programmed content of the just one button.

### Controlling a TV

By switching the mode selector as shown below, a single button alternately controls Sony TV and another manufacturer's TV.



**When a Sony TV cannot be remotely controlled**  
Program the signal in the same way as for another manufacturer's TV. In this case, even with Sony TV, set the mode selector to USER STD.

**If no signal has been programmed**  
RM-P1 Remote Commander can control Sony equipment even when the mode selector is set to USER STD.  
**If the TV works incorrectly**  
Press RESET and operate again. The programmed contents of the buttons are not cleared by pressing RESET.

## Playback/Reception

## Basic Operation

You can select a program source among VIDEO 1, VIDEO 2, TV/AUX, TAPE 1, TAPE 2 (or DAT), CD 1, CD 2 and TUNER.

### Preparation

Insert a cassette tape or a disc to be played back according to the program source.

### To play a video tape in the master room

- When you use a Sony TV, press TV/VIDEO on the RM-P1 Remote Commander to make the monitor screen appear on the TV. If you programmed the signal of VIDEO1, 2, or 3 on the A button of the RM-P1, you need not press TV/VIDEO.
- When you use another manufacturer's TV, press POWER ON and TV/VIDEO on the RM-P1 Remote Commander.

### To watch a TV program

When you use another manufacturer's TV, press POWER ON on the RM-P1 Remote Commander to turn on the power of the TV.

### Operation

**1** Press a function button to select the desired program source. The program source you selected appears on the display window of the RM-P1 Remote Commander.

If you want to listen to/ watch....	Press....
Video program	VIDEO 1 or VIDEO 2
Laser disc	VIDEO 2
TV program	TV/AUX
Taped program	TAPE 1 or TAPE 2/DAT
DAT program	TAPE 2/DAT
Compact disc	CD 1 or CD 2
Radio program	TUNER

**2** Adjust the volume.

**To stop the playback**  
Press ■. If the PRIORITY indicator of the master digital control center or the Digital Link™ Touch Panel is off, first press PRIORITY.

When you press any button on the RM-P1 Remote Commander, a transmitting wave appears on the display window.

## Operation with Priority

**To listen to/watch a different program source**  
Press the desired function button.

**To turn off the power of the system**

**To turn off the power of the system**  
Press **POWER OFF\***. The indicator of the function will go out.

## \* Automatic power off

The power of the DST system excluding TV will be turned off automatically 30 seconds after you pressed POWER OFF either in the master room or digital link room unless other room(s) are using another program source.

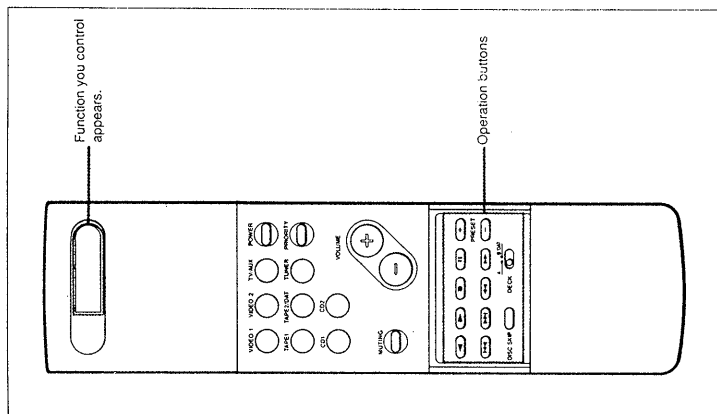
**When you watch a video tape or TV program on another**

**manufacturer's TV**  
Be sure to turn off the power of the TV. Even if you press POWER OFF on the DST system block of the RM-P1 Remote Commander, the power of that TV will not be turned off.

When you press TV/AUX on the RM-P1 Remote Commander during video playback operation  
Picture on the TV changes to the one of the TV tuner.

### Note

When you use another manufacturer's VCR, LD or MD player, do not turn on and off the power of it independently. If you turn on and off the power of that equipment independently, its power may not be switched to the power of the DST system.



## Before operation

Check that the **PRIORITY** indicator lights on the master digital control center or Digital Link™ Touch Panel you control.

If this indicator is off, press **PRIORITY** on the RM-P1 Remote Commander.

## Video Tape Operation

Available operation

Start playback with VIDEO 1, VIDEO 2 or ►

You want to	Press
Stop playback	■
See a still picture (pause mode)	
Release the pause mode	or ▲
Advance the tape rapidly	▲▲
Rewind the tape	▼▼

## Laser (Multi) Disc Operation

Available operation

Start playback with VIDEO 2 or ►

You want to	Press
Stop playback	■
See a still picture (pause mode)	II
Release the pause mode	II or ►
Locate a following chapter	►►
Locate a previous chapter	◄◄
Locate a particular point ahead of the current one	►►
Locate a particular point behind the current one	◄◄

## Operation with Priority

### Cassette Tape Operation

#### Available operation

Start playback with TAPE 1, TAPE 2 or ►.

You want to	Press
Stop playback	■
Stop playback temporarily (pause mode)	II
Release the pause mode	II or ►
Advance the tape rapidly	▶▶▶
Rewind the tape	◀◀◀
Change the playback side*	◀▶
Locate a following selection**	▶▶▶
Locate a previous selection**	◀◀◀

\* available only for Sony tape decks

\*\* available only for a tape deck equipped with the

▶▶▶◀▶▶▶ buttons. The DECK selector is to be set to B.

### DAF Operation

#### Available operation

Start playback with TAPE 2 or ►.

You want to	Press
Stop playback	■
Stop playback temporarily (pause mode)	II
Release the pause mode	II or ►
Advance the tape rapidly	▶▶▶
Rewind the tape	◀◀◀
Locate a following selection	▶▶▶
Locate a previous selection	◀◀◀

\* When you use these buttons, be sure to set the DECK selector to B on the RM-P1 Remote Commander.

### Compact Disc Operation

#### Available operation

Start playback with CD 1, CD 2 or ►.

You want to	Press
Stop playback	■
Stop playback temporarily (pause mode)	II
Release the pause mode	II or ►
Locate a following selection	▶▶▶
Locate a previous selection	◀◀◀
Locate a particular point ahead of the current one	▶▶▶
Locate a particular point behind the current one	◀◀◀
Skip to another disc*	DISC SKIP

\* Available only for a Sony CD player equipped with a multi-disc changer

### Tuner Operation

#### Available operation

Start reception with TUNER.

You want to	Press
Locate a preset station	PRESET + or PRESET -

### About the Priority of Remote Control

#### Purpose

To avoid mixing up remote control signals, the DST system allows only one room to control each program source. The room which has the "priority" can control that program source.

#### What is "priority"?

The PRIORITY indicator on the master digital control center or digital link touch panel lights if the room has the priority. If you have the priority, you can control any operation available on the selected program source, by using the RM-P1 Remote Commander. (Refer to pages 41 and 42.) If you do not have the priority, you can listen to watch the program source and adjust the volume, but you cannot activate any other operations. See the table below for details of the difference between a room WITH priority and a room WITHOUT priority.

#### How the priority is assigned

- If no room is using a particular program source The room where the playback of that program source starts first will have the priority. Then the PRIORITY indicator lights on the master digital control center or Digital Link™ Touch Panel installed in that room.
- If room A is using a particular program source When the playback of that program source starts in room B, the priority for that program source has been assigned to room A. If a different program source is selected in room B, the priority for this new program source will be assigned to room B.

#### How to obtain the priority

Press PRIORITY on the RM-P1 Remote Commander. If the PRIORITY indicator is off on the equipment you control, this indicator will light. Then, you can perform various operation with the RM-P1 Remote Commander.

#### About "Automatic Power Off"

The "Automatic Power Off" function turn off the power automatically if you press ■ button and leave it for more than 10 minutes. If someone who has priority stops the playback/reception of the program source or turns off the power, it affects those who also listen to watch the same program source in other rooms as well. The table below describes what happens when "Automatic Power Off" function is activated.

PRIORITY indicator	A room WITH priority	A room WITHOUT priority
Things you can do	on	off
(on the RM-P1 Remote Commander, master digital control center and/or Digital Link™ Touch Panel)	select a program source adjust the volume muting turn off the power	select a program source adjust the volume muting turn off the power
(on the RM-P1 Remote Commander only)	start, stop, pause for a moment, rewind or fast-forward locate a desired selection play the reverse side search for a disc tune in the preset station	obtain the priority
How the "Automatic Power Off" works		
(When you press ■ in a room with priority)	Playback-reception stops. After 10 minutes, the PRIORITY indicator blinks. After 30 seconds, the power turns off automatically.	Playback-reception stops. After 10 minutes, the PRIORITY indicator blinks. After 30 seconds, the power turns off automatically.
(When you press POWER OFF in a room with priority)	Power turns off.	PRIORITY indicator blinks. After 30 seconds, the power turns off automatically.

\* During a 10-minute break of the program source playback reception

When you want to continue the playback reception in a room without priority, first press PRIORITY on the RM-P1 Remote Commander. During this 10-minute break, you cannot resume the playback.

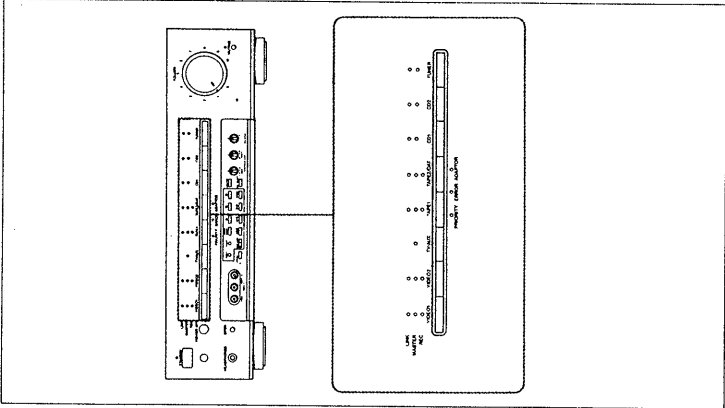
When you operate the double cassette deck  
Pressing of the function button on the RM-P1 Remote Commander activates the deck A operation regardless of the position of the DECK Selector

About the Multi-Room Operation

In the DST system, several rooms are connected to the system and it is impossible to watch operations in other rooms. Unwanted operation may occur when you are playing a program source. This section explains the system of the multi-room operation and imaginable problems.

Checking the Multi-Room Operation on the Master Digital Control Center

The MASTER and LINK indicators on the master digital control center allows you to check what program source(s) is used in the DST system.



Indicator on the master digital control center	MASTER	LINK
Condition	Lights in green	Lights in orange
What happens	Playback of a program source starts in the master room.	Playback of a program source starts in digital link room(s).
Condition	Goes off	
What happens	Playback/reception of the program source stops in the master room.	Playback/reception of the program source stops in digital link room(s).

Available Program Sources for the Simultaneous Playback

In the DST system, audio/video signals to be transmitted simultaneously are limited as described below. When you want to select a different program source from the one played in the master room or other digital link rooms, note that up to five program sources is available simultaneously.

For the master room: any program source

For digital link rooms:

- CD 1
- Two audio sources with digital sound
- One video source with analog (monaural) sound from TV
- VIDEO 1 and VIDEO 2 cannot be selected simultaneously in digital link rooms.

Examples showing the maximum program sources played back simultaneously

	Master room	Digital link room 1	Digital link room 2	Digital link room 3	Digital link room 4	Digital link room 5	Digital link room 6	Digital link room 7
Example 1	Program source in use	VIDEO 1	TAPE 2	VIDEO 2	TAPE 2	TUNER	CD 1	TV/AUX*
	Form of transmission in sound	analog	-digital	analog	digital	digital	digital	—
Example 2	Program source in use	CD 1**	VIDEO 1	TAPE 1	TAPE 1	VIDEO 1	TV/AUX*	CD 1
	Form of transmission in sound	analog	analog	digital	digital	analog	—	digital

When you select a TV program

TV programs can be selected in every room because the function of TV/AUX is independent of the system.

When you select CD 1 in the master room

The maximum number of program sources transmitted simultaneously becomes four.

If you cannot select a desired program source

- All transmissible audio/video signals are used according to the above table.  
Example: when CD 1, CD 2 and TAPE 1 functions are used in more than three digital link rooms.  
You cannot select TAPE 2 in another digital link room.
- Someone is going to start recording in the master room. While the REC indicator of your desired program source blinks on the master digital control center, you cannot select that program source in a digital link room even if you press its function button.

How many rooms can select the same program source?

All rooms can select the same program source. In the DST system, one program source can be selected in up to 17 rooms including the master room.

About the ERROR Indicator

The ERROR indicator lights in the following cases and shows that the DST system does not function correctly.

- The connection of 75-ohm coaxial cable within the DST system has not been performed correctly.  
Check the connection. Consult your nearest Sony ES dealer if necessary.
- The USER/LEARN selector on the master digital control center is set to LEARN when you play the same program source as the one played in the master room.  
You can continue to play that program source, but various operations with priority are not available even if you have the priority. You cannot select another program source, either.

Recording

Recording

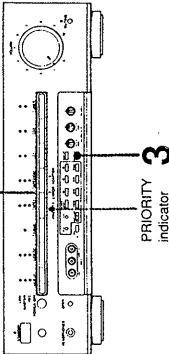
Note that you cannot perform recording  
— by using the RM-P1 Remote Commander.  
— on the Digital Link™ Touch Panel.

Preparation

- Insert a blank tape, disc or recorded tape into each playback/recording equipment.

- To record a TV program  
Select a desired channel on the RM-P1 Remote Commander or TV.

Operation



**1** Press the function button to select the desired program source.

**2** If the PRIORITY indicator on the front panel does not light, press PRIORITY on the RM-P1 Remote Commander to obtain the priority.  
When the PRIORITY indicator is lit, skip this step.

**3** Press REC SELECT.  
The REC indicators blink in red. The program source with the REC indicator blinking can be recorded.\*

**4** Press the function button to select a program source onto which you will record the one selected in step 1.  
The REC indicator lights in red on the selected function button.

**5** Perform recording with the playback/recording equipment.  
① Set the equipment for recording in the recording mode.  
② Set the other equipment in the playback mode.

**To stop recording**  
Press REC SELECT.

**Notes on recording**

- If the REC indicator of your desired program source to be recorded does not blink, this program source is in use in another digital link room (s). To record onto this program source, first press PRIORITY on the RM-P1 Remote Commander.
- While the REC indicator blinks, program sources with these indicators on cannot be used in digital link rooms.
- When you want to dub a program source, select the same program source in step 1 and 4.

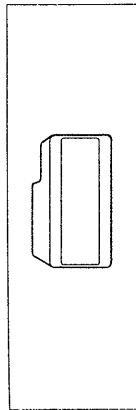
Other Information

Optional Accessories

The DST system can be expanded with the use of optional accessories other than the supplied ones. Refer to the following optional accessories for system expandability. For audio, video and control cords, refer to page 21.

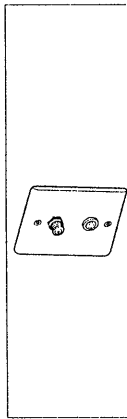
For the Master Room

For remote control of the system in a hidden installation RMR-3030K Wireless remote control receiver  
Install the wireless remote control receiver in a convenient location and point the RM-P1 Remote Commander at the wireless remote control receiver to control the system.

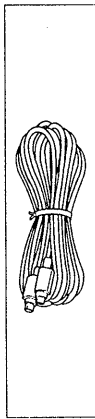


For a Digital Link Room

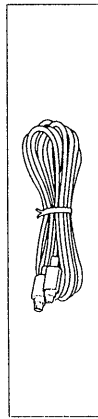
To install an RMR-TP1 Digital Link™ Touch Panel into the wall  
PC-3030 Connector wall unit



RK-MD3030 Mini DIN cable (male - male, 10 m/32 ft 6 in)

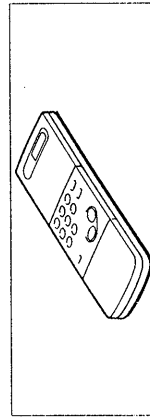


RK-MD3035 Mini DIN cable (male - male, 5 m/16 ft 3 in)

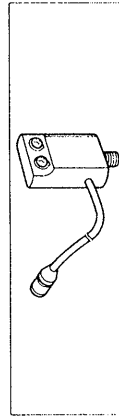


For the DST system

To control the system from every digital link room with the priority  
RM-P1 Remote Commander:  
• One piece is supplied for the system.



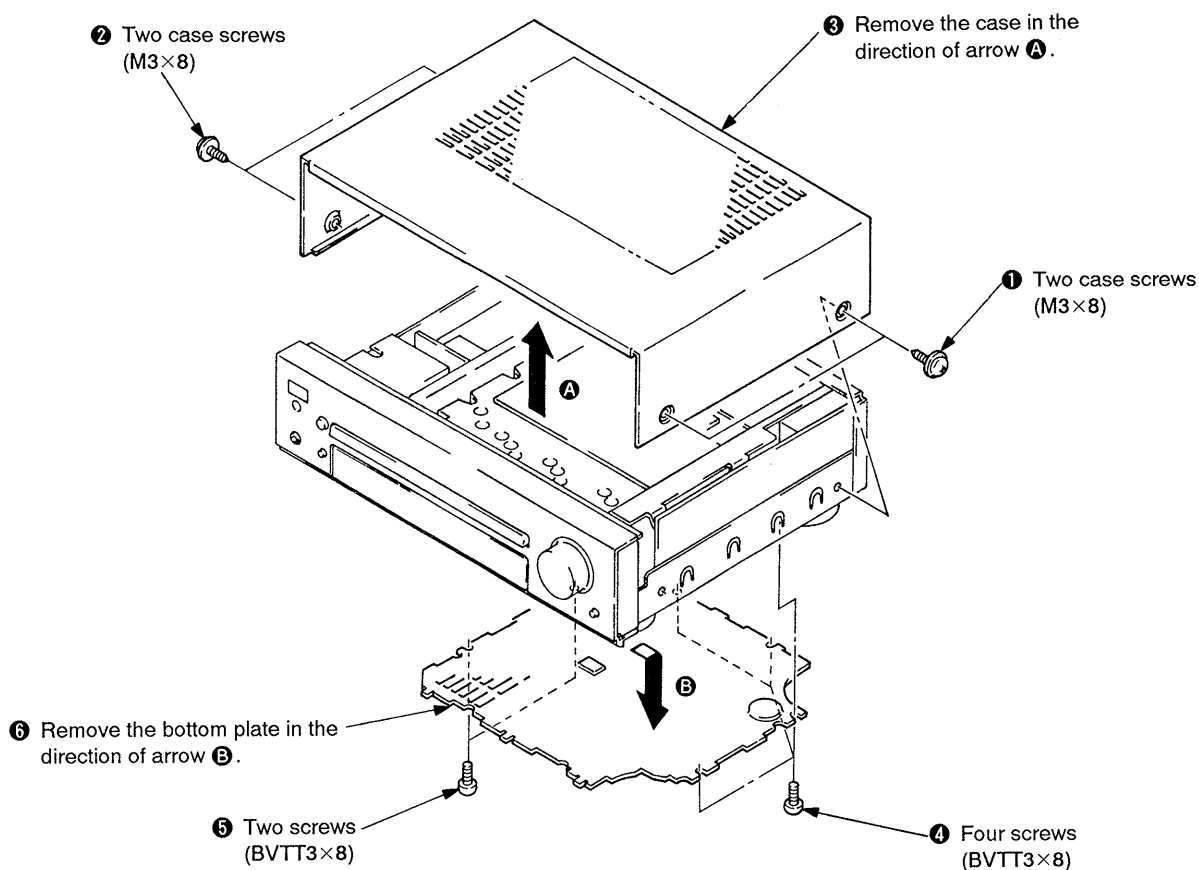
To connect a TV with UHF and VHF jacks  
EAC-66 U-V band separator mixer



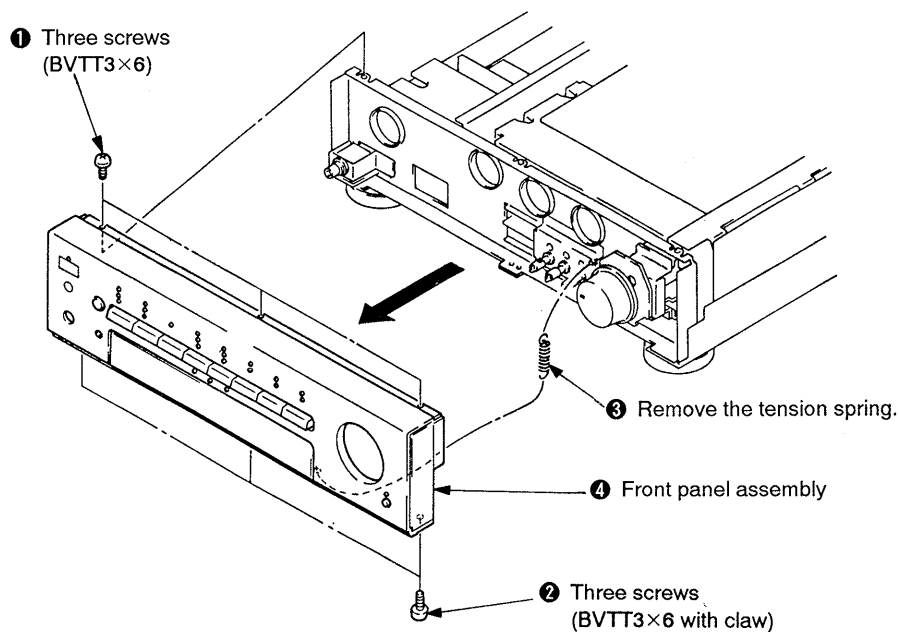
## SECTION 2

### DISASSEMBLY

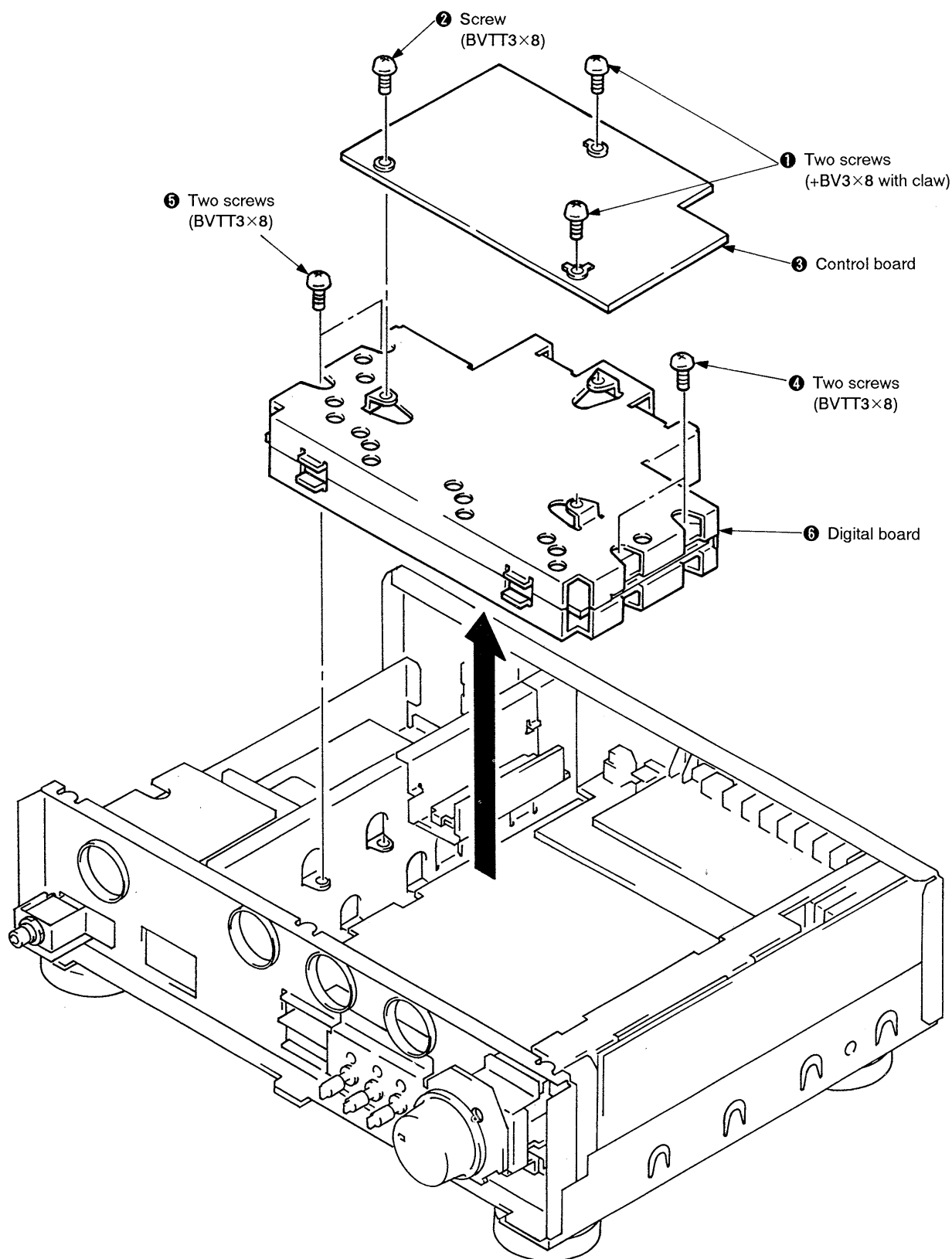
#### 2-1. REMOVAL OF CABINET ASSEMBLY



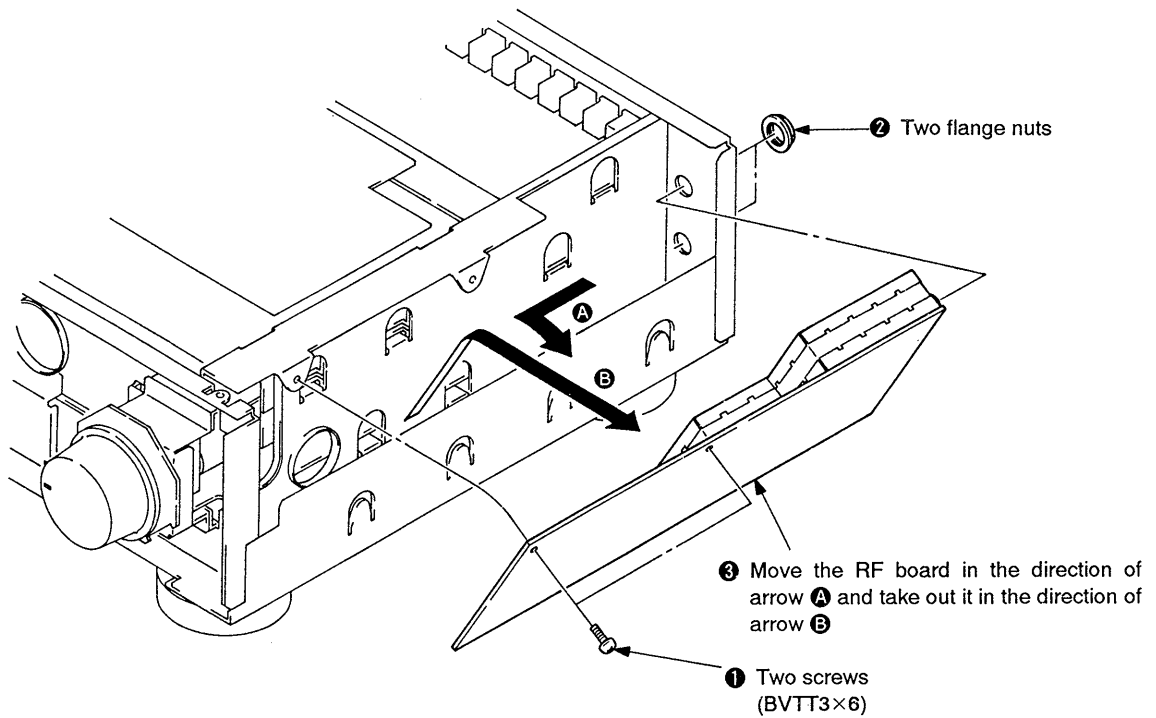
#### 2-2. REMOVAL OF FRONT PANEL ASSEMBLY



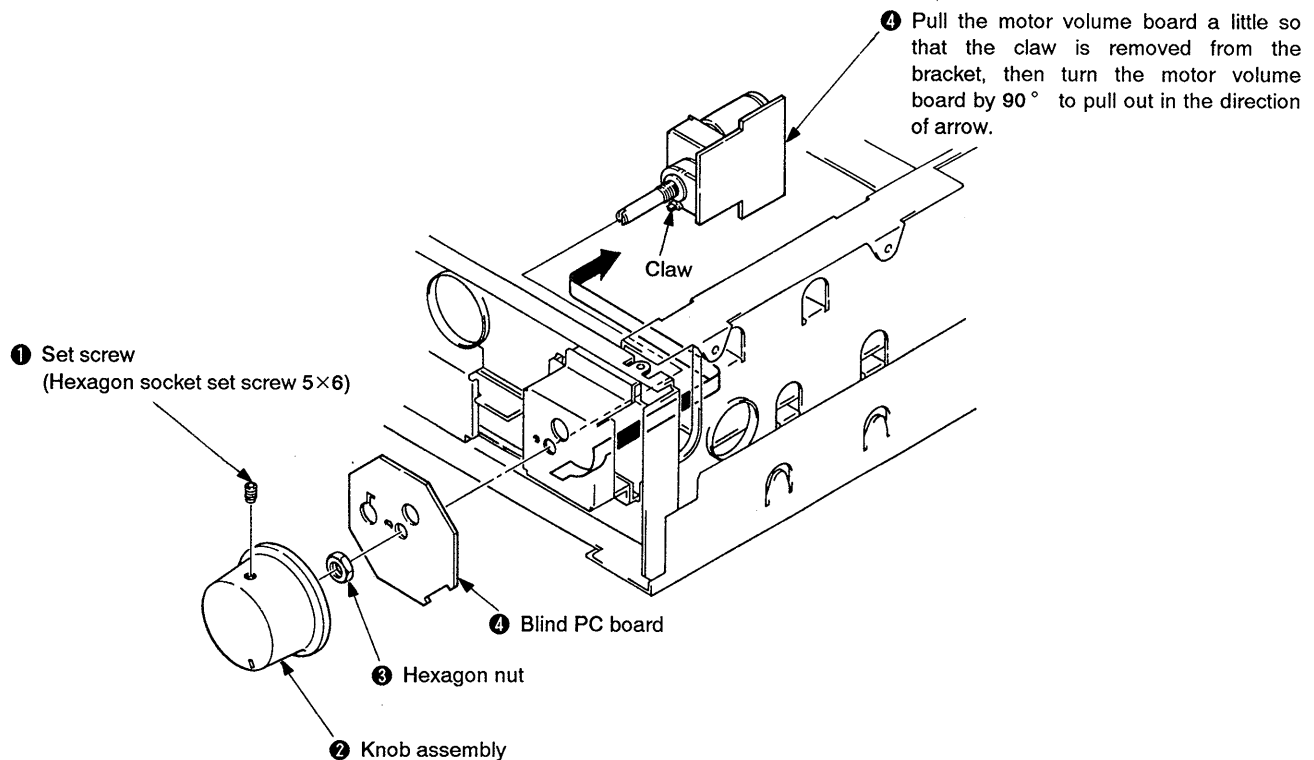
### 2-3. REMOVAL OF CONTROL AND DIGITAL BOARDS



## 2-4. REMOVAL OF RF BOARD

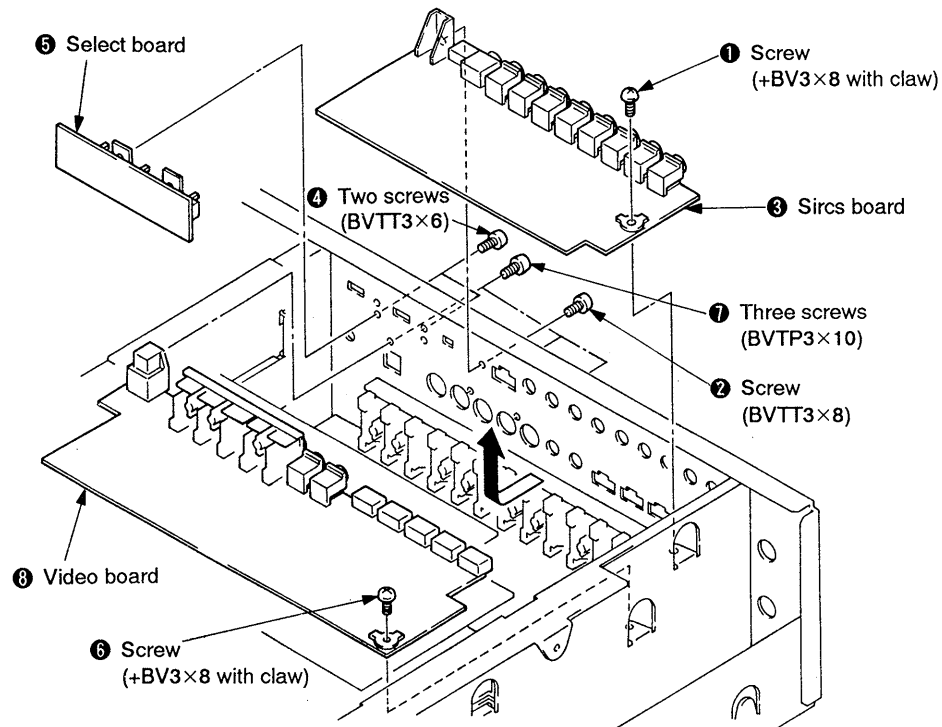


## 2-5. REMOVAL OF MOTOR VOLUME BOARD

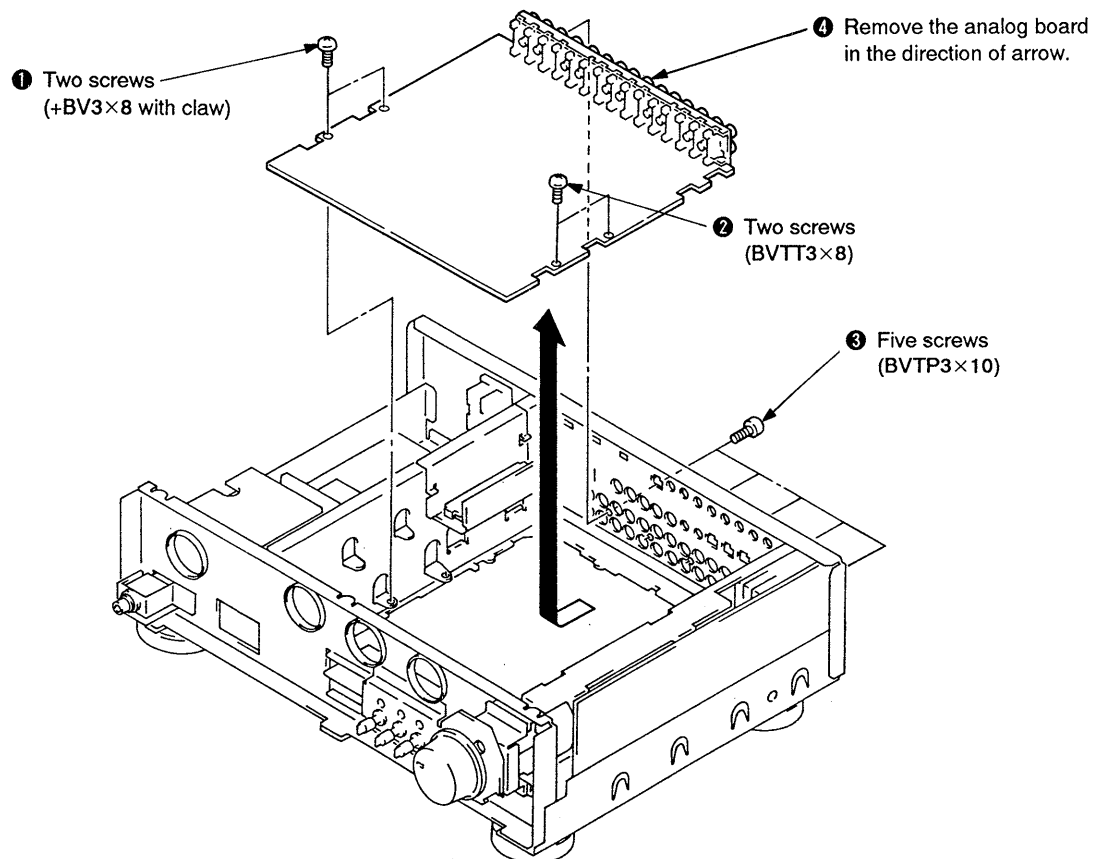




## 2-6. REMOVAL OF VIDEO, SIRCS AND SELECT BOARDS



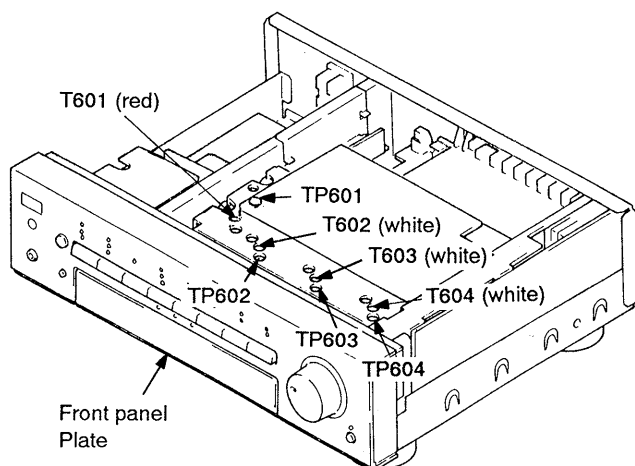
## 2-7. REMOVAL OF ANALOG BOARD



## SECTION 3

### ELECTRICAL ADJUSTMENT

#### [VCO Adjustment]



With only upper cover removed, adjustment can be done through holes of shield case using regulating rod.

Adjusting method:

1. Connect cable to CD1 DIGITAL INPUT (optical) terminal and input the signal (sampling frequency: 44.1 kHz).
2. Connect digital voltmeter to TP601.
3. Adjust T601 for  $2.8 \pm 0.3V$  with regulating rod.
4. Perform the same adjustments as in steps 2 and 3 with TP602 and T602.
5. Perform the same adjustments as in steps 2 and 3 with TP603 and T603.
6. Perform the same adjustments as in steps 2 and 3 with TP604 and T604.

Adjusting board: DIGITAL board

#### [RX Adjustment]

Adjusting method:

1. Disconnect CNP807 (+15V) from the board.
2. Connect signal generator to "TO DST SIGNAL COMBINER" terminal and input the 5 kHz rectangular waveform (carrier: 15.5 MHz, level: -60 dBm, deviation: 75 kHz, impedance: 75Ω).
3. Connect oscilloscope to CNP806 RX terminal.
4. Adjust T801 with regulating rod so that the waveform duty ratio of oscilloscope becomes 50%.
5. Adjust the signal generator output for -70 dBm.
6. Adjust RV801 until the voltage at RX terminal becomes 0V (muted condition).

Adjusting board: RF board

#### [CONTROL IR Output Adjustment]

Perform the following adjustments only when the customer has complained that the CONTROL IR does not function. Otherwise, following adjustments are not necessary. Adjust RV750 through RV756 to mechanical center (mid-range), normally.

Adjusting method:

1. Connect the equipments. (Connect the LED emitter with the audio/video equipment which the customer uses.) Refer to Fig. 1.
2. Adjust RV750 through RV756 (adjust only the complained control) until the equipment which is to be controlled operates.
3. When the adjustment can not be completed by above adjustments and more output is required, short-circuit the variable resistor and change the resistor connected in series to smaller value. Refer to Fig. 2.

Connection:

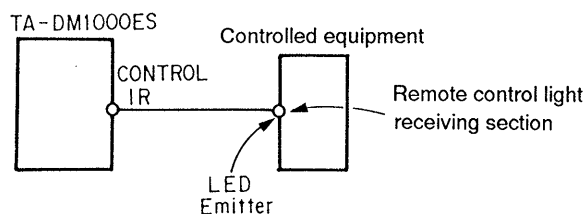


Fig. 1.

Adjusting board: SIRCS board

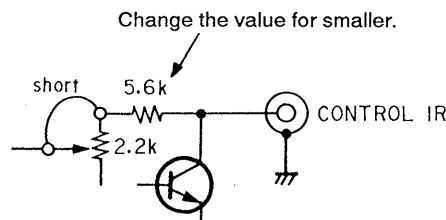
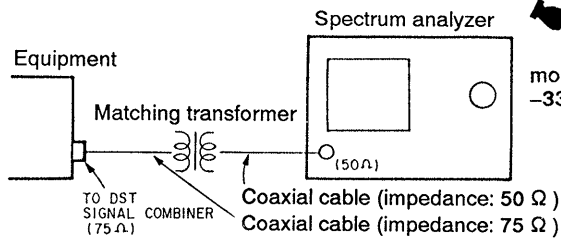


Fig. 2.

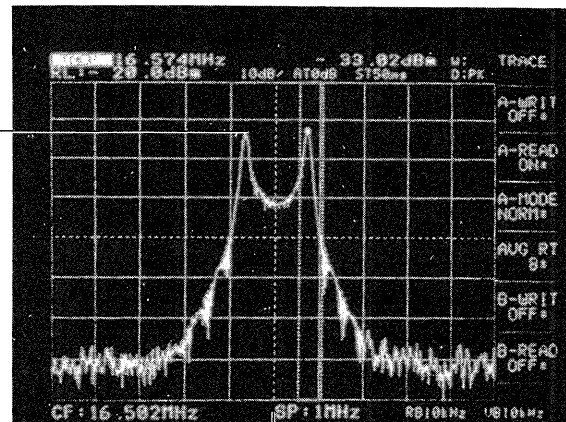
## [TO DST SIGNAL COMBINER Output Check]

### • Remote control signal

Connection:

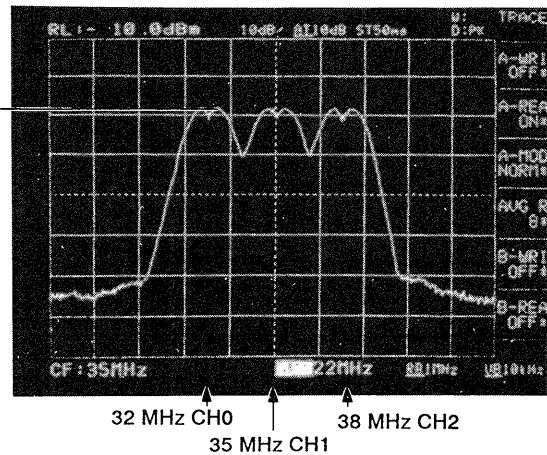


1. Disconnect CNP807 ( ± 15V, yellow 2-pin) from the RF board.  
(Note: If not, the spectrum analyzer will be damaged.)
2. Connect spectrum analyzer to "TO DST SIGNAL COMBINER" through matching transformer.
3. Connect cable to CD1 DIGITAL INPUT (optical) terminal and input the signal (sampling frequency: 44.1 kHz).
4. Check that the following waveforms are displayed with spectrum analyzer.



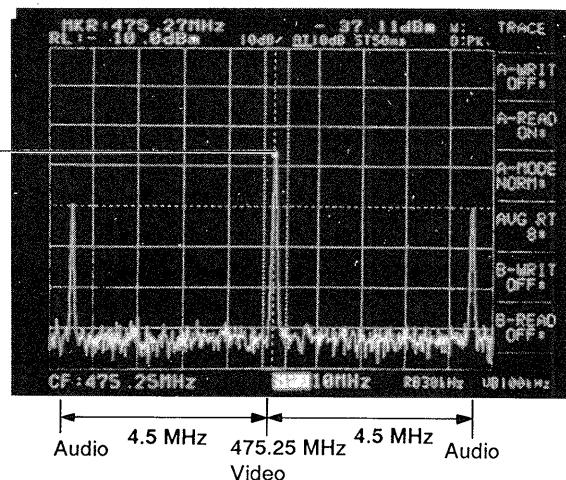
### • PCM digital signal

more than -36 dBm



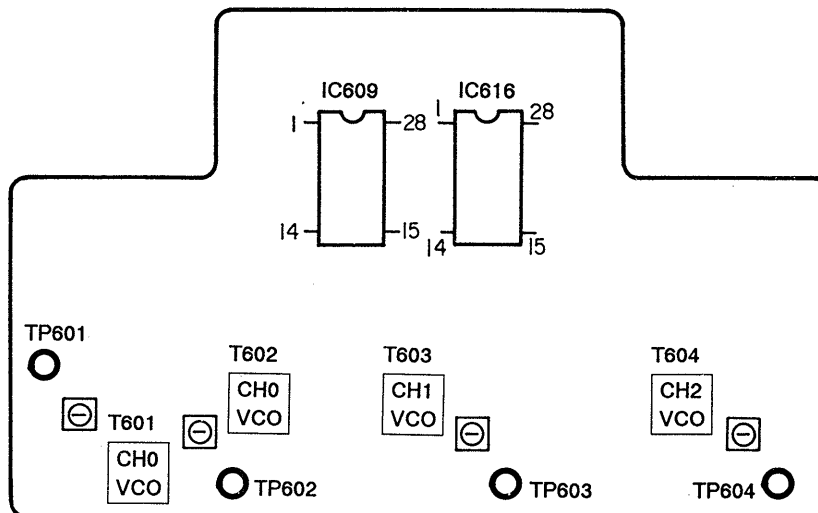
### • Video/audio signal

-36 ± 5 dBm

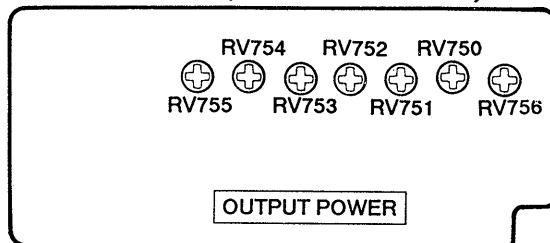


## ADJUSTMENT ELEMENTS LOCATION

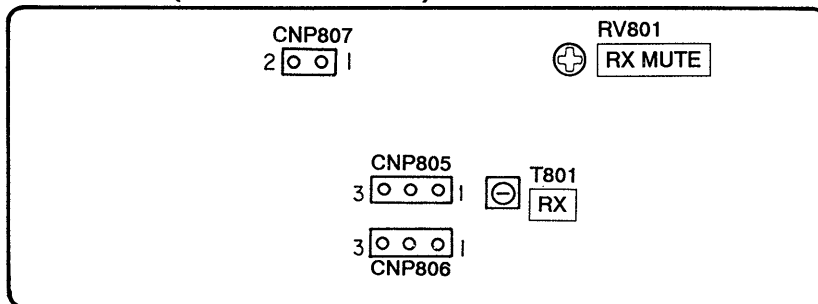
### DIGITAL BOARD (COMPONENT SIDE)



### SIRCS BOARD (COMPONENT SIDE)



### RF BOARD (COMPONENT SIDE)



## SECTION 4

### IC PIN FUNCTIONS

• **IC701 System Controller (  $\mu$ PD78224GJ-559-5BG) Pin Functions**

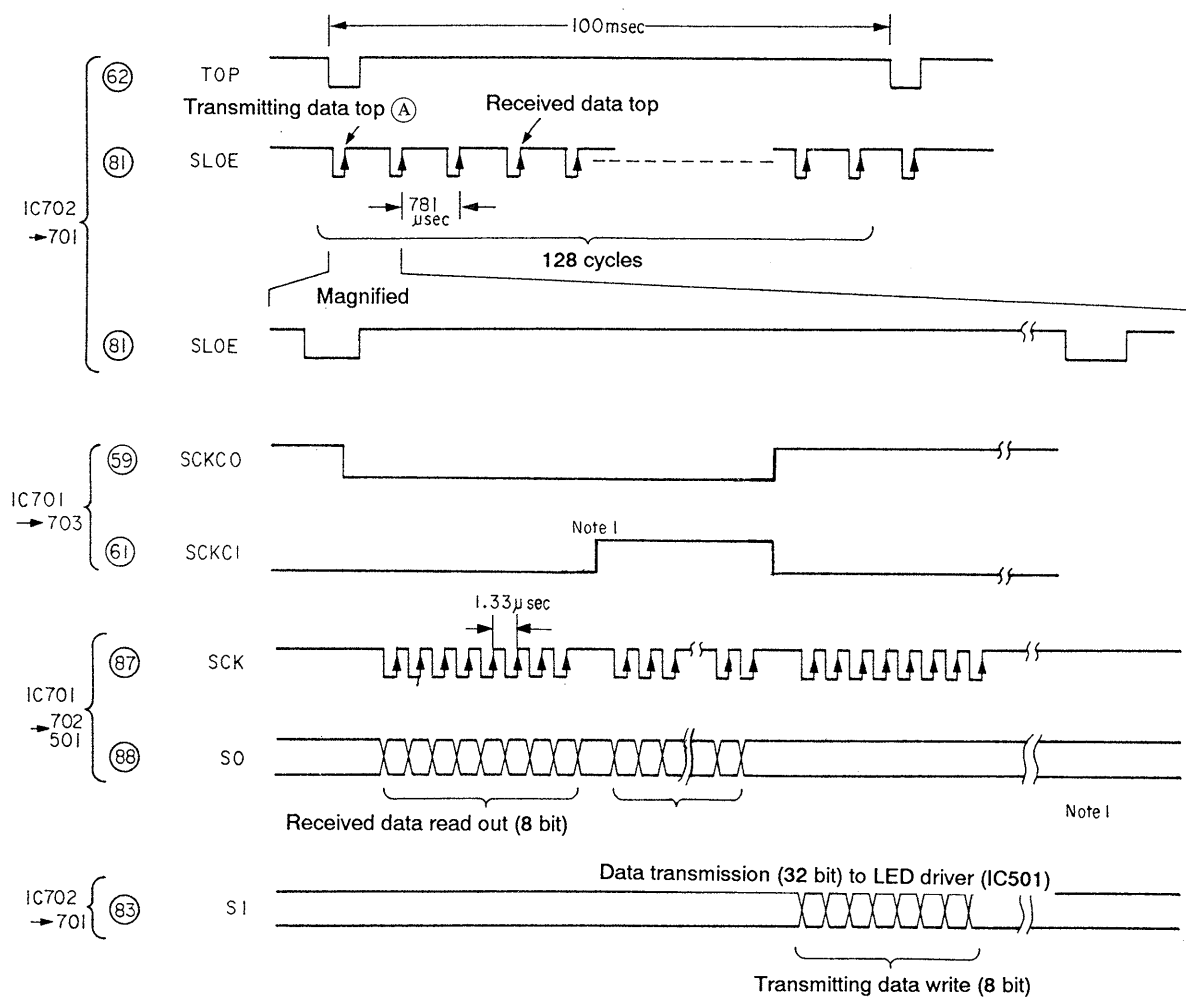
IC701 functions as audio/video signal selector, various remote control signal controller, key input and LED display controller, etc, while transmitting and receiving the data with sub system (TA-DL100) through multilink encoder (IC702).

Pin No.	Pin Name	I/O	Description
1	–	–	Not used
2	–	–	Not used
3	TAPE2/DAT	I	Category code setting input (S780) for device connected to TAPE 2/DAT.
4	POWER OFF	I	Power switch (S521) input. “L”: power OFF
5	P-COM-LEARN	I	Learning end detect output of remote control signal from learning remote controller (IC705).
6	LEARN/USER	I	USER/LEARN switch (S524) input. “L”: LEARN, “H”:USER
7	RESET	I	System reset signal input
8	VDD	–	Power terminal (+5V)
9	X2	O	Clock output
10	X1	I	Clock input (12 MHz)
11	Vss	–	Power terminal (GND)
12	Vss	–	Power terminal (GND)
13	IC	–	Connected to ground.
14	VIDEO1	O	Output of SIRCS signal divided into category.
15	VIDEO2	O	Output of SIRCS signal divided into category.
16	TAPE1	O	Output of SIRCS signal divided into category.
17	TAPE2	O	Output of SIRCS signal divided into category.
18	CD1	O	Output of SIRCS signal divided into category.
19	CD2	O	Output of SIRCS signal divided into category.
20	TUNER	O	Output of SIRCS signal divided into category.
21	–	–	Not used
22	–	–	Not used
23	EN	O	Enable output to IC706 through IC708. “L”: enable
24	RAMCLR	O	When performing RAM CLEAR of learning remote controller: “L”
25	D5	O	Remote control code/category code select data output to IC706 through IC708.
26	D4	O	Remote control code/category code select data output to IC706 through IC708.
27	D3	O	Remote control code/category code select data output to IC706 through IC708.
28	D2	O	Remote control code/category code select data output to IC706 through IC708.
29	D1	O	Remote control code/category code select data output to IC706 through IC708.
30	D0	O	Remote control code/category code select data output to IC706 through IC708.
31	–	–	Not used
32	DI	O	Serial data output to analog function switches (IC101 through IC104, and IC403).
33	CLK	O	Data transmission clock output to analog function switches (IC101 through IC104, and IC403).
34	CE	O	Chip enable output to analog function switches (IC101 through IC104 and IC1403).
35	–	–	Not used
36	–20dB MUTE	O	–20 dB attenuator ON/OFF output. “L”: attenuation, “H”: normal.
37	RELAY	O	Power relay (RY901) ON/OFF output. “H”: relay ON
38	MUTE	O	Muting output for PRE OUT and HEADPHONE. “L”: mute

Pin No.	Pin Name	I/O	Description																			
39	DATA2	O	DOWN signal output for volume motor (RV304)	<div>* Volume motor control</div> <table><tr><td></td><td>DATA1 ③⑨</td><td>DATA1 ④⑩</td></tr><tr><td>UP (clockwise)</td><td>H</td><td>L</td></tr><tr><td>DOWN (counterclockwise)</td><td>L</td><td>H</td></tr><tr><td>STOP</td><td>L</td><td>L</td></tr></table>				DATA1 ③⑨	DATA1 ④⑩	UP (clockwise)	H	L	DOWN (counterclockwise)	L	H	STOP	L	L				
	DATA1 ③⑨	DATA1 ④⑩																				
UP (clockwise)	H	L																				
DOWN (counterclockwise)	L	H																				
STOP	L	L																				
40	DATA1	O	UP signal output for volume motor (RV304)																			
41	–	–	Not used																			
42	KEYIN7	I	Key scan input																			
43	KEYIN6	I	Key scan input																			
44	KEYIN5	I	Key scan input																			
45	KEYIN4	I	Key scan input																			
46	KEYIN3	I	Key scan input																			
47	KEYIN2	I	Key scan input																			
48	KEYIN1	I	Key scan input																			
49	KEYIN0	I	Key scan input																			
50	–	–	Not used																			
51	Vss	–	Power terminal (GND)																			
52	Vss	–	Power terminal (GND)																			
53	IC	–	Connected to ground.																			
54	$\overline{\text{EA}}$	I	Connected to +5V.																			
55	NC	–	Not used																			
56	0	O	Key scan output																			
57	1	O	Key scan output																			
58	2	O	Key scan output																			
59	SCKC0	O	Data transmission clock select control output to clock selector (IC703).	<div>* Clock selector selection</div> <table><tr><td></td><td colspan="2">IC702</td><td>IC501</td></tr><tr><td></td><td>Transmission</td><td>Reception</td><td>Transmission</td></tr><tr><td>Pin ⑤⑨ SCKC0</td><td>L</td><td>H</td><td>L</td></tr><tr><td>Pin ⑥⑩ SCKC1</td><td>L</td><td>L</td><td>H</td></tr></table>				IC702		IC501		Transmission	Reception	Transmission	Pin ⑤⑨ SCKC0	L	H	L	Pin ⑥⑩ SCKC1	L	L	H
	IC702		IC501																			
	Transmission	Reception	Transmission																			
Pin ⑤⑨ SCKC0	L	H	L																			
Pin ⑥⑩ SCKC1	L	L	H																			
60	NC	–	Not used																			
61	SCKC1	O	Data transmission clock select control output to clock selector (IC703).																			
62	$\overline{\text{TOP}}$	I	Signal (100 Hz) input to inform the data top from multilink encoder (IC702).																			
63	ERROR	I	Received data error detect input from multilink encoder (IC702). “H”: error found.																			
64	SIRCS IN	I	Remote control signal input from remote control sensor (IC502) and CONTROL S IN (CNJ750 and CNJ751).																			
65	VDD	–	Power terminal (+5V)																			
66	VDD	–	Power terminal (+5V)																			
67	$\overline{\text{OE}}$	O	OUTPUT ENABLE output to IC501 (LED driver)																			
68	$\overline{\text{LE}}$	O	LATCH ENABLE output to IC501 (LED driver)																			
69	DRLC	O	DRLC LED (+9V power) ON/OFF output to CONTROL S (CNJ750)																			
70	NC	–	Note used																			

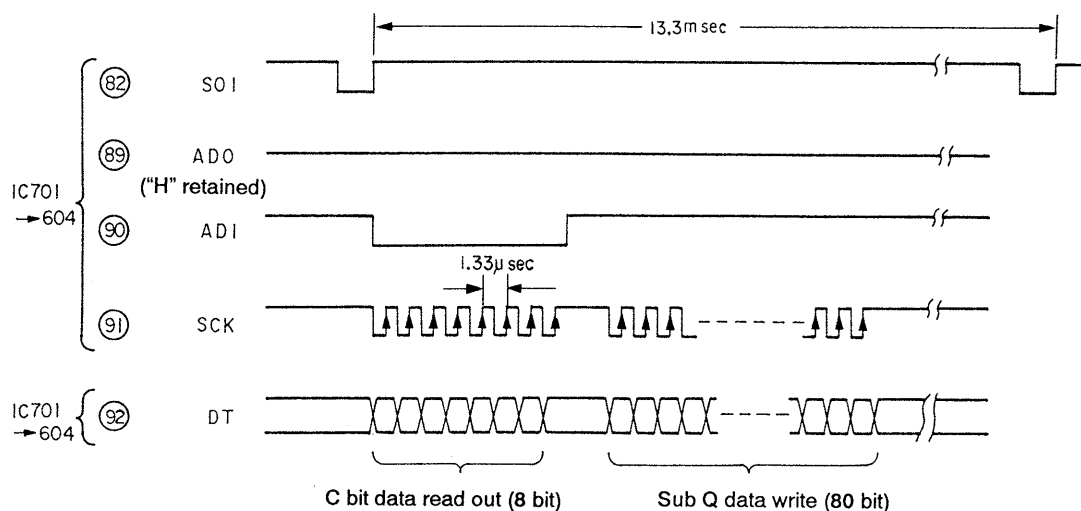
Pin No.	Pin Name	I/O	Description
71	–	–	Not used
72	–	–	Not used
73	–	–	Not used
74	UNLOCK	I	PLL UNLOCK detect input from CH1 EFM encoder (IC604). “H”: unlocked
75	–	–	Not used
76	STOP	I	Power stop detect input. $\bar{L}$ : power failure
77	–	–	Not used
78	NC	–	Not used
79	–	–	Not used
80	–	–	Not used
81	SLDE	I	Data request input from multilink encoder (IC702)
82	S01	I	Reference pulse input (75 Hz) from CH1 EFM encoder (IC604). Sync portion: “L”
83	SI	I	Received data input from multilink encoder (IC702). Half clock is delayed by IC704.
84	NC	–	Not used
85	–	–	Not used
86	–	–	Not used
87	SCK	O	Serial data transmission clock output (750 kHz) to IC702 (multilink encoder) and IC501 (LED extension port). Clock is separated into three (transmission and reception with IC702 and transmission to IC501) by clock selector (IC703).
88	SO	O	Serial data output to IC702 (multilink encoder) and IC501 (LED extension port).
89	SINAD0	O	Data transmission mode setting output to CH1 EFM encoder (IC604).
90	SINAD1	O	Data transmission mode setting output to CH1 EFM encoder (IC604).
91	SINCK	O	Data transmission clock output to CH1 EFM encoder (IC604).
92	SINDT	I/O	Serial data input/output terminal with CH1 EFM encoder (IC604).
93	VIDEO1	I	Category code setting input (S782) of connected device to VIDEO 1.
94	VIDEO2	I	Category code setting input (S781) of connected device to VIDEO 2.

\* Timing for serial communication with multilink encoder CX2902S (IC702)



**Note 1:** Data transfer to LED driver (IC501) is carried out only when transmission data top (A), (once a 100 msec)

\* Timing for serial communication with EFM encoder CXD2520Q (IC604)





• **IC702 Multiple Link Encoder CXD2902S Pin Functions**

IC702 encodes the data supplied from the sub system (TA-DL100) and transmits to IC701 (system controller), and also decodes the data from IC701 to sub system.

Pin No.	Pin Name	I/O	Description
1	TDMI	I	Fixed to "L".
2	TDMG	O	Not used: OPEN
3	EDAT	I	Not used: "L"
4	B1DT	O	Not used: OPEN
5	SYS1	O	Not used: OPEN
6	PBCK2	O	Not used: OPEN
7	BCK2	I	Clock input to modulate in bi-phase to 1024 bit data from IC701 (system controller).
8	SYN0	O	2BCK output. Connect to Pin ⑦.
9	PBCK	O	Not used: OPEN
10	BCK1	I	Basic clock input to read and write the received data in internal RAM.
11	BCK0	O	1/1024 frequency-divided output of master clock (10.48576 MHz). Connected to Pin ⑩.
12	BCK3	O	1/32 frequency-divided output of master clock (10.48576 MHz). Not used: OPEN
13	WIN	I	Not used: "L"
14	T1	I	Test input. Not used: "L"
15	T2	I	Test input. Not used: "L"
16	GND	—	Power source terminal (GND)
17	MTST	I	Test input. Fixed to "L".
18	XI	I	Clock input (10.48576 MHz)
19	XO	O	Clock output
20	SIO2	O	Output indicating head 4 bit sync position in 64 bit of receiving data. Connected to Pin ⑳.
21	SYNC	I	Input indicating head 4 bit sync position in 64 bit of receiving data.
22	CRC1	O	Clock output to latch the received data error. Connected to Pin ㉑.
23	ERCK	I	Clock input to latch the received data error.
24	CLR9	O	Not used: OPEN
25	CL11	O	Not used: OPEN
26	DORA	I	Not used: "L"
27	D1PB	I	Not used: "L"
28	D2RC	I	Not used: "L"
29	RD	I	Not used: "L"
30	ED	I	Encode/decode process select input. Fixed (encoded) to "L".
31	LOAD	I	Test terminal. Not used: "H".
32	VDD	—	Power source terminal (+5V)

Pin No.	Pin Name	I/O	Description
33	EX	I	Not used: "L".
34	MS1	I	Not used: "L".
35	CWEE	O	Test monitor terminal. Not used: OPEN
36	SDIN	I	Test terminal. Not used: "L"
37	SP	I	Test terminal. Not used: "L"
38	ABSL	O	Test monitor output. Not used: OPEN
39	REST	I	Internal RAM read out reset input
40	CLR <sub>W</sub>	O	Internal RAM write cycle output. Connect to Pin 39.
41	CLRE	O	Internal RAM write reset output. Connect to Pin 42.
42	CLR	I	Internal RAM write reset input.
43	SYC1	O	Not used: OPEN
44	ERR	O	Output of data error detection received from Pin 50. "H": error found.
45	MRCK	I	Clock input to read out the received data.
46	D	I	Internal CRC checker input. Connected to Pin 47.
47	DOUT	O	Output when IC701 (system controller) reads out the received data.
48	GND	–	Power source terminal (GND)
49	SLOE	O	Output indicating the 128 byte distinction to IC701 (system controller).
50	DIN	I	Data input received from RF part.
51	PBDT	O	Not used: OPEN
52	CWEO	O	Not used: OPEN
53	SUBS	O	Not used: OPEN
54	REQ	O	Not used: OPEN
55	SLO	O	Not used: OPEN
56	CK16	I	Data transmission clock input from IC701 (system controller).
57	DT16	I	Serial data (1024 bit) input from IC701 (system controller).
58	SOUT	O	Not used: OPEN
59	TOP	O	Outputs the signal indicating data head (100 Hz) to IC701 (system controller).
60	BIPH	I	Input to monitor the signal at Pin 61.
61	BIDT	O	Terminal to apply bi-phase modulation to data fed from IC701 (system controller) and output with applying CRC.
62	SDAT	O	Not used: OPEN
63	INIT	I	Test initializing input. Not used: "H".
64	VDD	–	Power source terminal (+5V)

• **IC705 Learning Remote Control (  $\mu$ PD17203GC-530-3BH) Pin Functions**

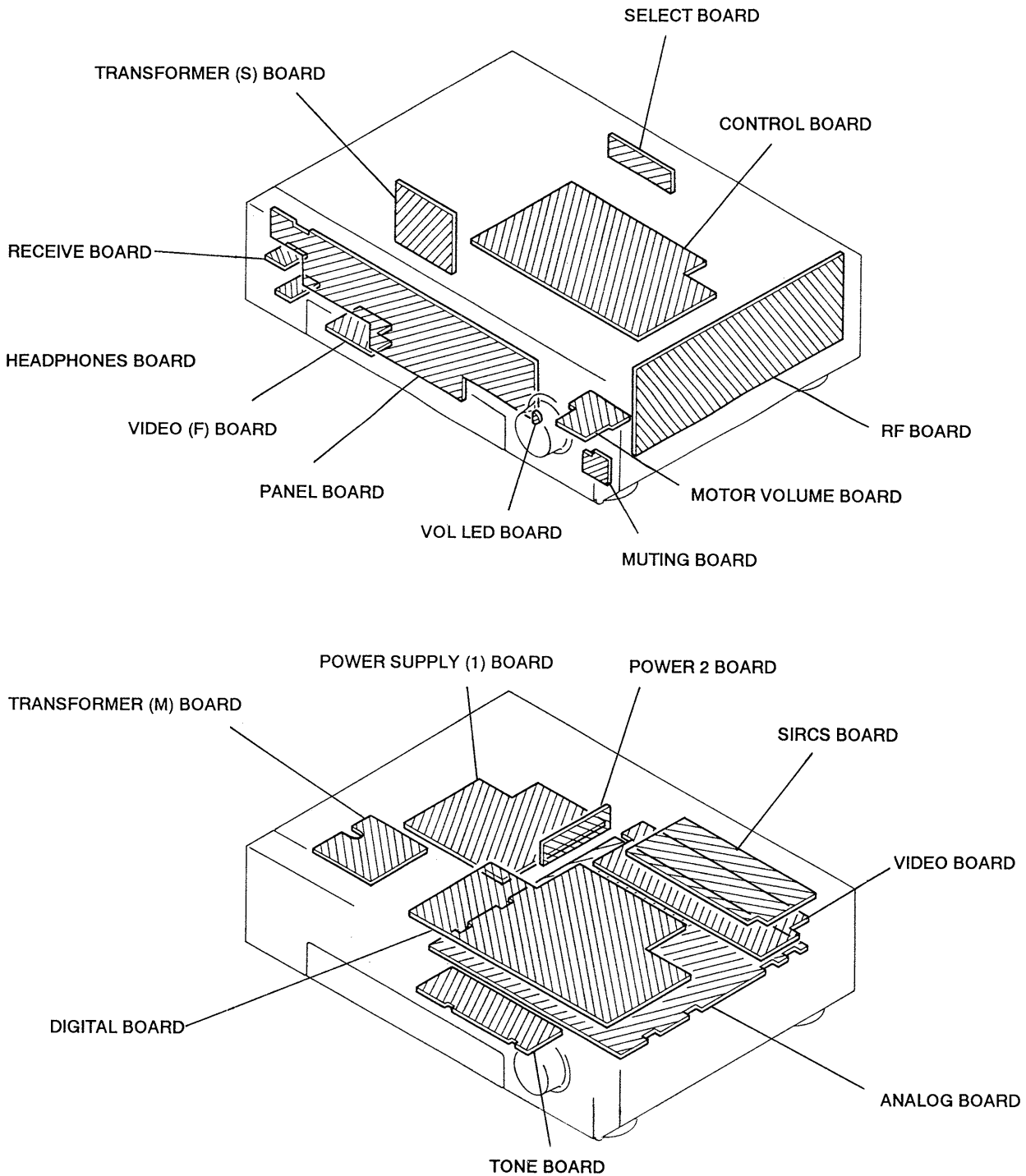
IC705 stores and outputs the remote control signals of other manufacturer by the system controller (IC701) instruction.

Pin No.	Pin Name	I/O	Description
1	LED	O	Not used. OPEN
2	REM	O	Remote control signal output
3	VXRAM	I	Power terminal for backup
4	VDD	–	Power terminal (+5V)
5	XIN	I	Clock input (4.0 MHz)
6	XOUT	O	Clock output
7	GND	–	Power terminal (GND)
8	RESET	I	Reset signal input
9	VDOUT	O	Not used. OPEN
10	XTIN	I	Not used
11	XTOUT	O	Not used
12	VREG	O	Voltage regulator output
13	VDEG	I	Voltage level setting input for voltage detector
14	GND	–	Power terminal (GND)
15	AMPIN–	I	Input terminal for other manufacturer's remote control signal.
16	GND	–	Power terminal (GND)
17	AMPOUT	O	Output of Pin ⑮ after amplified
18	VREF	O	Reference voltage (1/2 VDD) output
19	COMPIN+	I	Comparator input
20	GND	–	Power terminal (GND)
21	COMPOUT	O	Comparator output. Connected to Pin ⑳.
22	TMO1N	I	Timer O input
23	INT	I	RAM CLEAR input. "L": CLEAR
24	P0A0	I	Key matrix input Not key switch but system controller determines the input key by selecting analog switch (IC706 and IC707) in this machine.
25	P0A1	I	
26	P0A2	I	
27	P0A3	I	
28	P0B0	I	
29	P0B1	I	
30	P0B2	I	
31	P0B3	I	

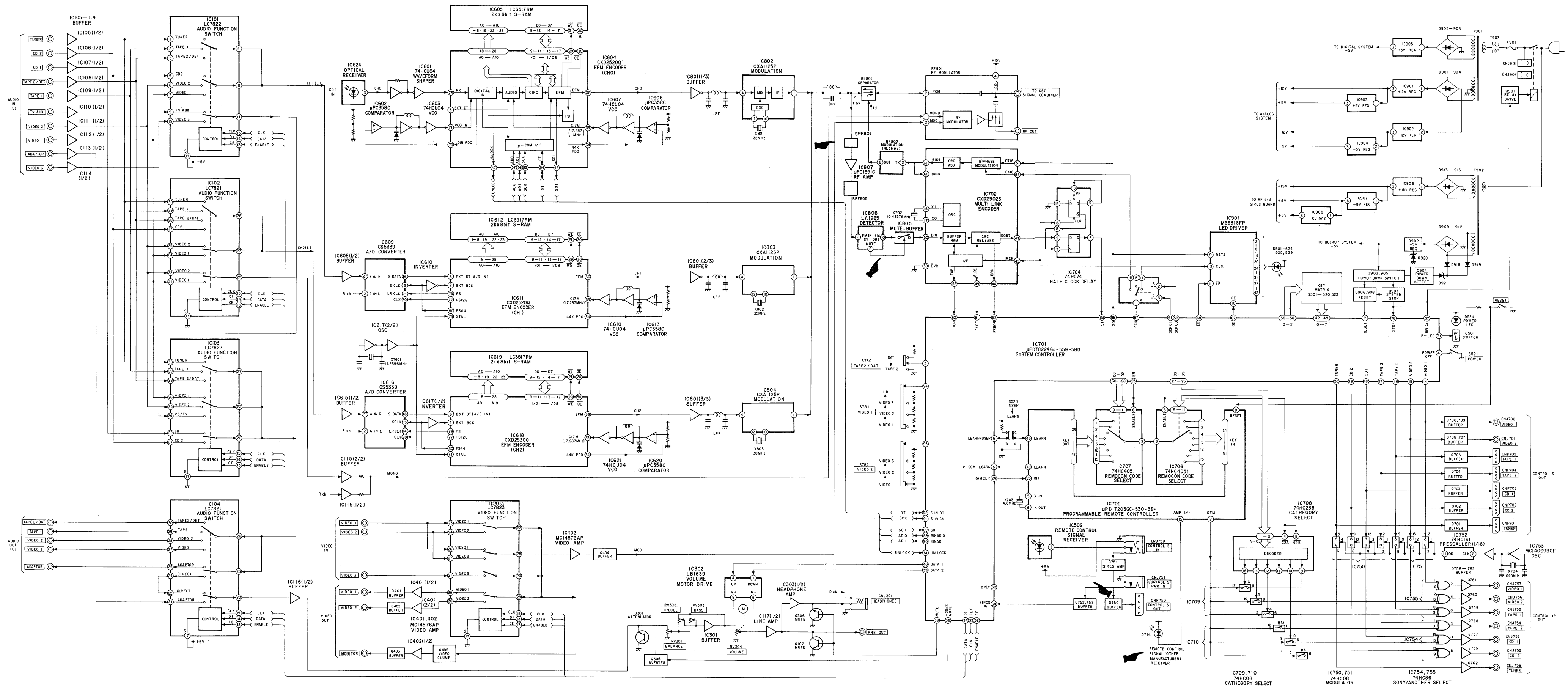
Pin No.	Pin Name	I/O	Description
32	–	O	Not used
33	GND	–	Power terminal (GND)
34	–	O	Not used
35	POC2	O	Key matrix output
36	POC3	I	Key matrix output
37	POD0	I	Key matrix output
38	POD1	I	Key matrix output
39	POD2	I	Key matrix output
40	POD3	I	Key matrix output
41	PIA0	I	Key matrix output
42	PIA1	I	Key matrix output
43	–	I	Not used
44	PIA3	O	Other manufacturer's remote control code. "L": when input
45	LEARN	I	USER/LEARN switch (S524) input. "L": LEARN, "H": USER
46	STD	I	Not used
47	TAPE	I	Not used
48	LEARN	O	Output to inform the end of learning to system controller (IC701).
49	TV	I	Not used
50	AMP	I	Not used
51	VTR2	I	Not used

## SECTION 5 DIAGRAMS

### 5-1. CIRCUIT BOARDS LOCATION



## REVISÉD





## 5-3. PRINTED WIRING BOARDS —ANALOG SECTION—

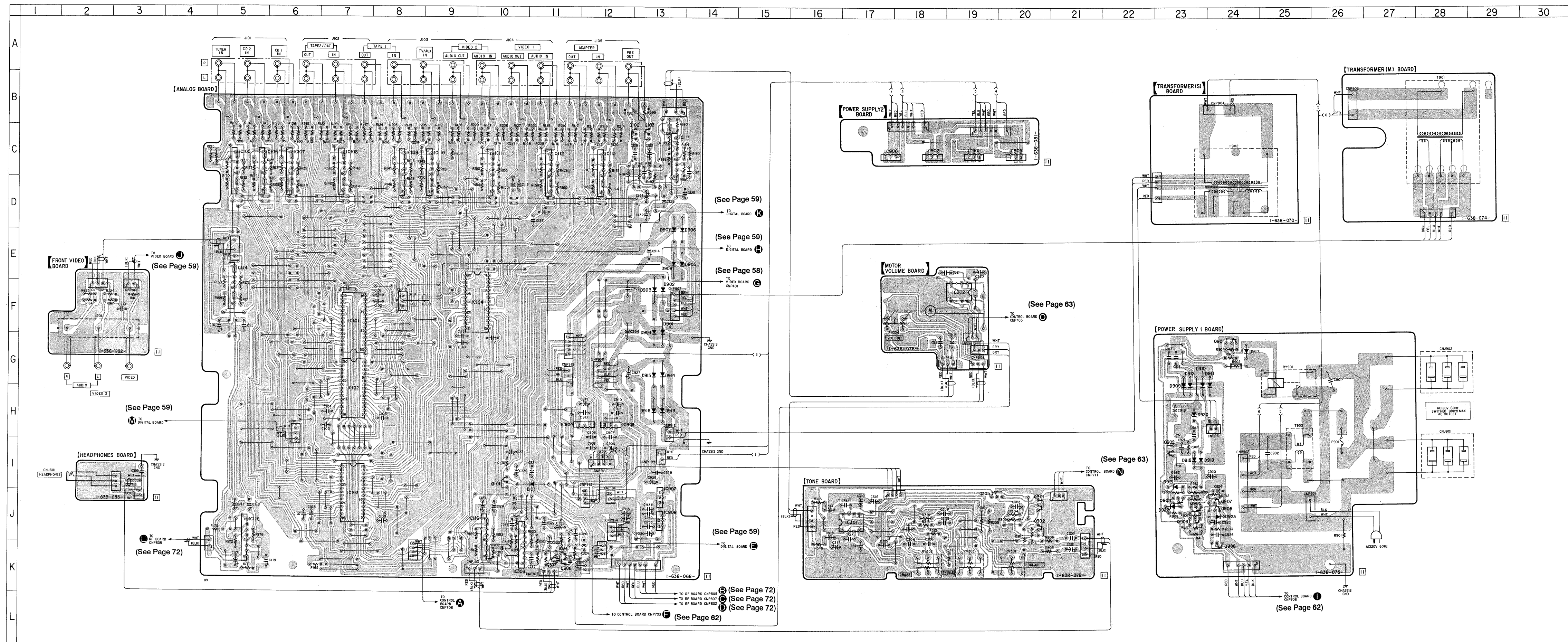
- See page 75 for Semiconductor Lead Layouts
- See page 76 to 78 for IC Block Diagrams

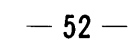
## • SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D101	H-10	Q101	H-10
D901	F-13	Q102	C-12
D902	F-13	Q103	C-13
D903	F-13	Q301	J-20
D904	F-13	Q302	J-20
D905	E-13	Q306	K-11
D906	D-13	Q307	K-11
D907	D-13	Q901	G-24
D908	E-13	Q902	I-23
D909	G-23	Q903	J-23
D910	G-23	Q904	J-23
D911	G-23	Q905	J-23
D912	G-23	Q906	J-24
D913	H-13	Q907	J-24
D914	G-13	Q908	J-24
D915	G-13		
D916	H-13		
D917	G-24		
D918	I-23		
D919	I-23		
D920	H-23		
D921	I-23		
D922	J-23		
D923	J-24		
IC101	F-7		
IC102	G-7		
IC103	J-7		
IC104	F-9		
IC105	C-5		
IC106	C-5		
IC107	C-6		
IC108	C-7		
IC109	C-8		
IC110	C-8		
IC111	C-10		
IC112	C-11		
IC113	C-12		
IC114	D-5		
IC115	J-5		
IC116	J-9		
IC117	C-14		
IC301	J-17		
IC302	F-19		
IC303	J-10		
IC901	C-19		
IC902	C-18		
IC903	H-12		
IC904	H-11		
IC905	C-20		
IC906	C-17		
IC907	J-13		
IC908	J-13		

## Note:

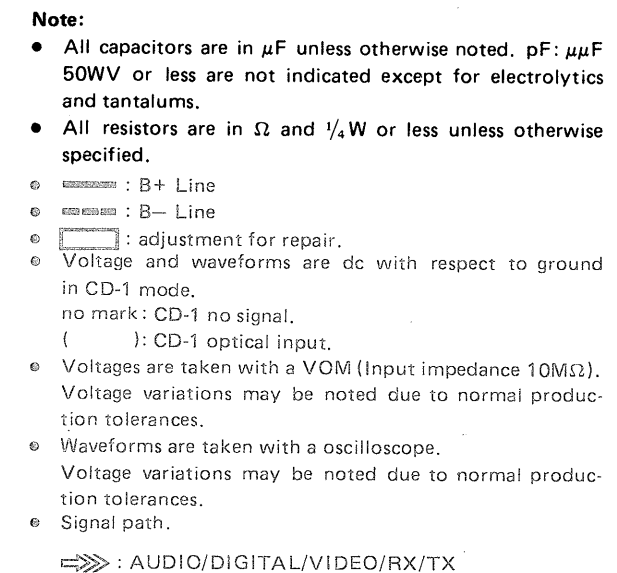
- — parts extracted from the component side.
- — parts mounted on the conductor side.
- ▨ — Pattern on the side which is seen.







- E —  
— C —  
— D —  
— E —  
— F —  
— C —  
— F —  
— I —  
— J —  
— K —  
— L —  
— M —  
— N —  
— C —



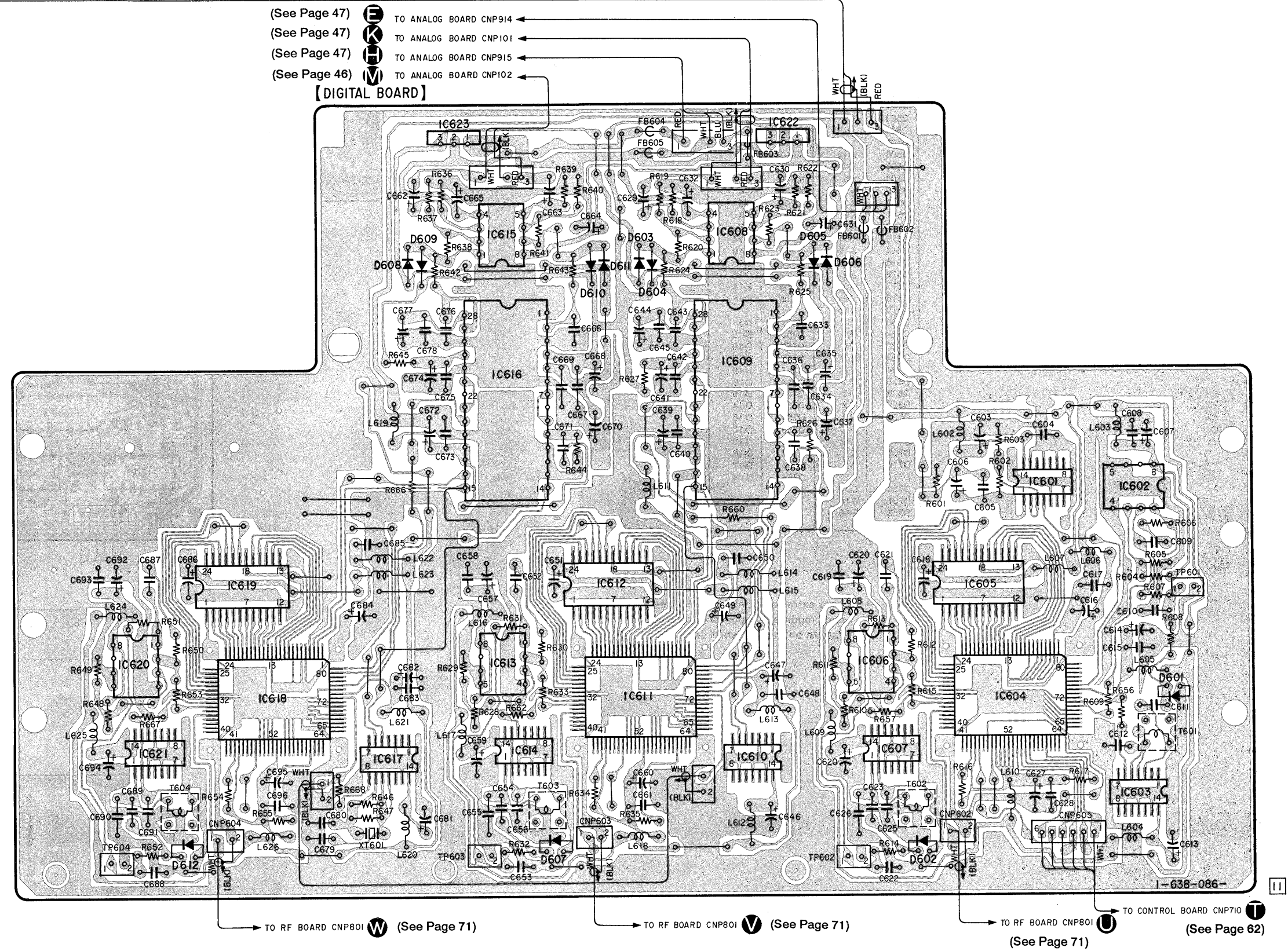
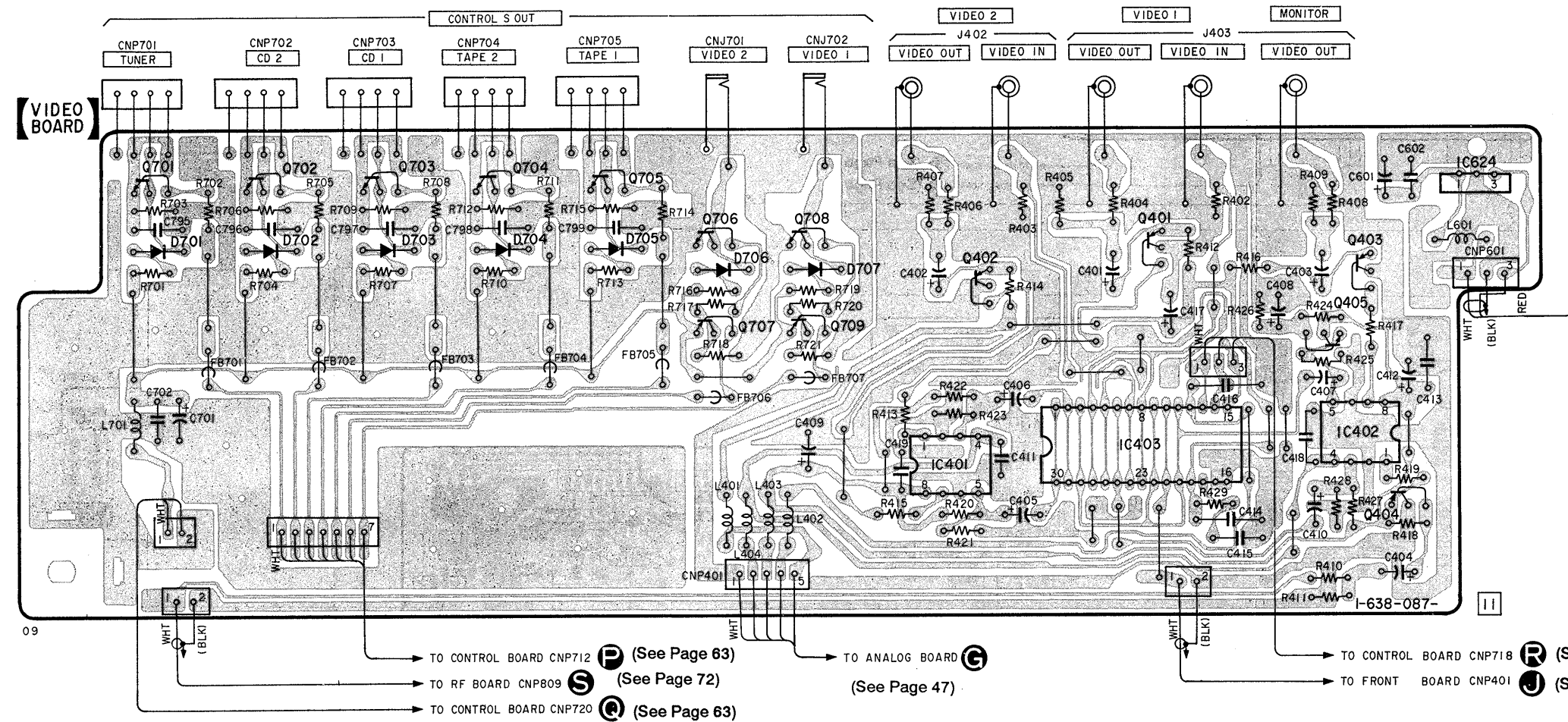


5-6. PRINTED WIRING BOARDS —DIGITAL SECTION—  
• See page 75 for Semiconductor Lead Layouts  
• See page 76 to 78 for IC Block Diagrams

• SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
D601	F-19	Q401	F-8
D602	G-17	Q402	F-7
D603	C-15	Q403	F-9
D604	C-15	Q404	G-9
D605	C-17	Q405	F-9
D606	C-17	Q701	E-2
D607	G-15	Q702	E-2
D608	C-14	Q703	E-3
D609	C-14	Q704	E-4
D610	C-15	Q705	E-4
D611	C-15	Q706	E-5
D612	G-12	Q707	E-6
D701	F-2	Q708	F-5
D702	F-2	Q709	F-6
D703	F-3		
D704	F-4		
D705	F-4		
D706	F-5		
D707	F-6		
IC401	G-6		
IC402	G-9		
IC403	G-7		
IC601	E-18		
IC602	E-19		
IC603	G-19		
IC604	F-18		
IC605	E-18		
IC606	F-17		
IC607	G-17		
IC608	C-16		
IC609	D-16		
IC610	G-16		
IC611	F-15		
IC612	E-15		
IC613	F-14		
IC614	G-14		
IC615	C-14		
IC616	D-14		
IC617	G-13		
IC618	F-12		
IC619	E-12		
IC620	F-11		
IC621	G-12		
IC622	B-16		
IC623	B-14		
IC624	G-5		

Note:  
• : parts extracted from the component side.  
• : parts mounted on the conductor side.  
• : Pattern on the side which is seen.





### 5-7. PRINTED WIRING BOARDS —CONTROL SECTION—

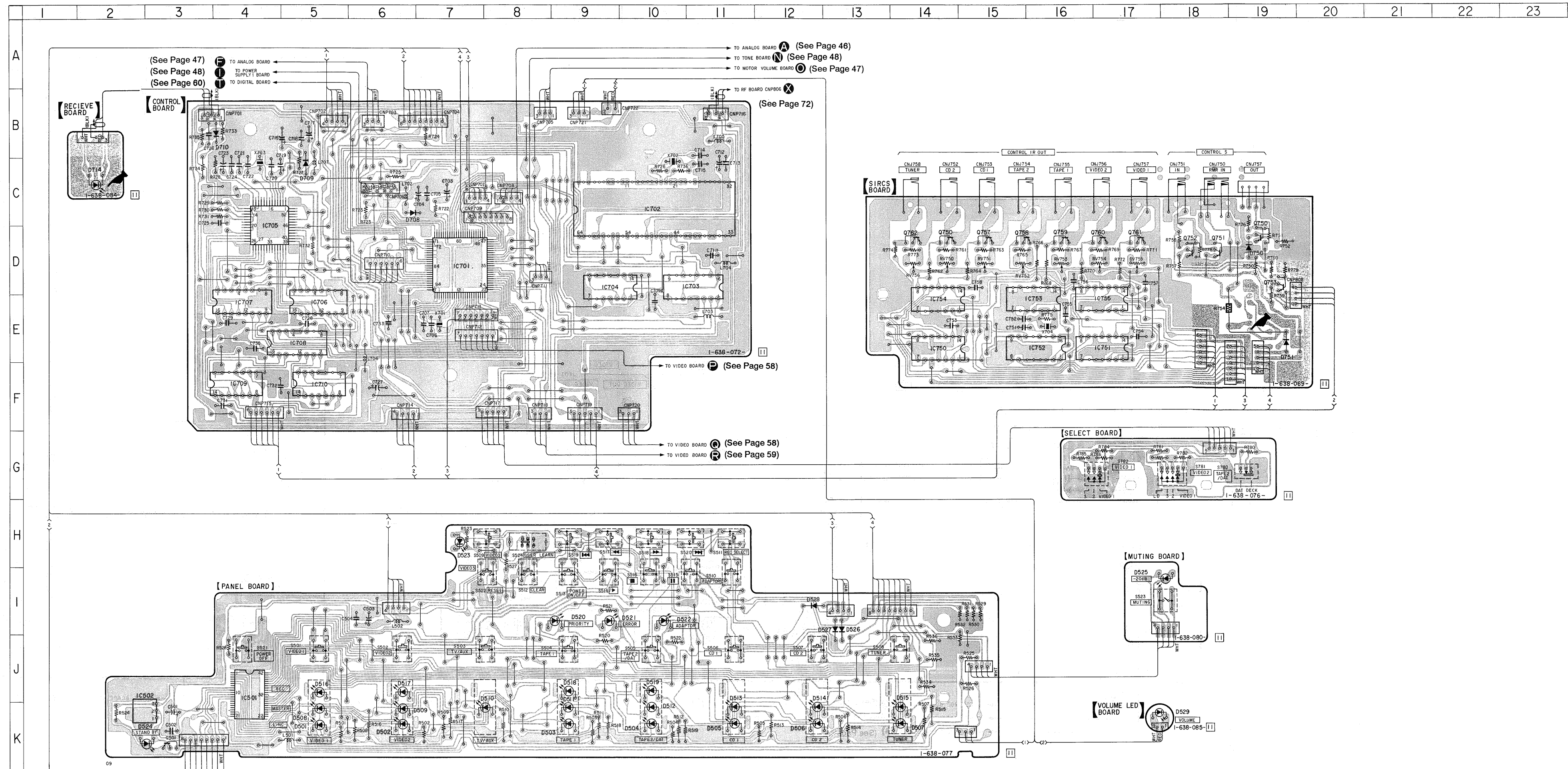
- See page 75 for Semiconductor Lead Layouts
- See page 76 to 78 for IC Block Diagrams

- **SEMICONDUCTOR LOCATION**

Ref. No.	Location	Ref. No.	Location
D501	K-5	IC501	J-4
D502	K-6	IC502	K-2
D503	K-9	IC701	D-7
D504	K-10	IC702	C-10
D505	K-11	IC703	D-10
D506	K-12	IC704	D-9
D507	K-13	IC705	C-4
D508	K-5	IC706	E-5
D509	K-6	IC707	E-4
D510	K-7	IC708	E-5
D511	K-9	IC709	F-5
D512	K-10	IC710	F-4
D513	K-11	IC750	E-14
D514	K-12	IC751	E-16
D515	K-13	IC752	D-15
D516	J-5	IC753	D-15
D517	J-6	IC754	E-14
D518	J-9	IC755	E-16
D519	J-10		
D520	I-8	Q501	K-3
D521	I-9	Q750	D-19
D522	I-10	Q751	D-18
D523	H-7	Q752	D-18
D524	K-2	Q753	D-19
D525	I-7	Q754	E-19
D526	I-13	Q755	D-19
D527	I-12	Q756	D-14
D528	I-12	Q757	D-15
D529	K-17	Q758	D-15
D708	C-6	Q759	D-16
D709	C-5	Q760	D-16
D710	B-8	Q761	D-17
D714	C-2	Q762	D-14
D750	D-19		
D751	E-19		
D752	E-18		

### Note:

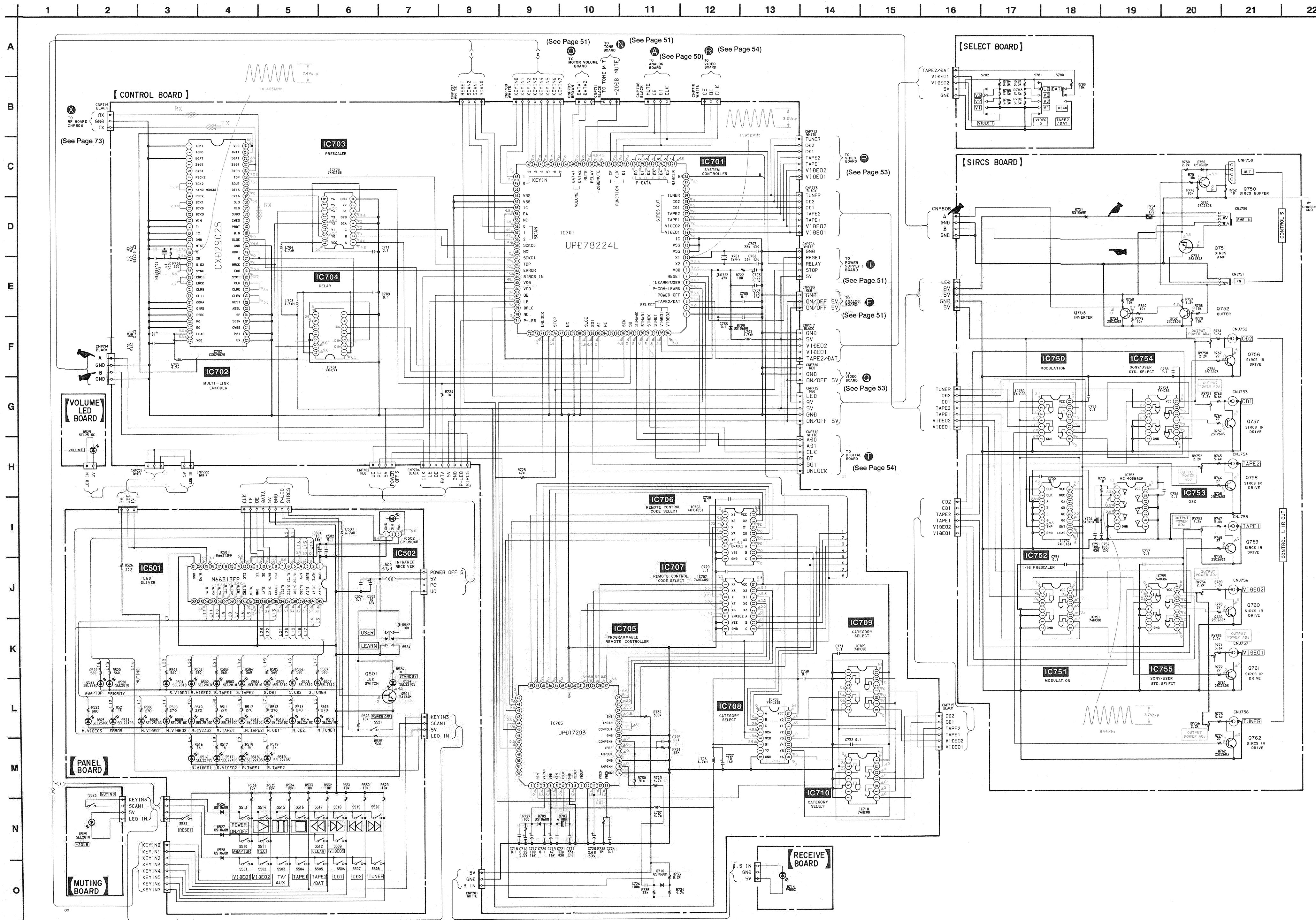
- ○ — : parts extracted from the component side.
- ■ : parts mounted on the conductor side.
- ▨ : Pattern on the side which is seen.





REVISED

- Note:**
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
  - : B+ Line
  - : B- Line
  - : adjustment for repair.
  - Voltage and waveforms are dc with respect to ground in CD-1 mode.
  - : CD-1 no signal.
  - : CD-1 optical input.
  - Voltages are taken with a VOM (input impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
  - Waveforms are taken with an oscilloscope.
  - Voltage variations may be noted due to normal production tolerances.
  - Signal path.
  - : AUDIO/DIGITAL/VIDEO/RX/TX





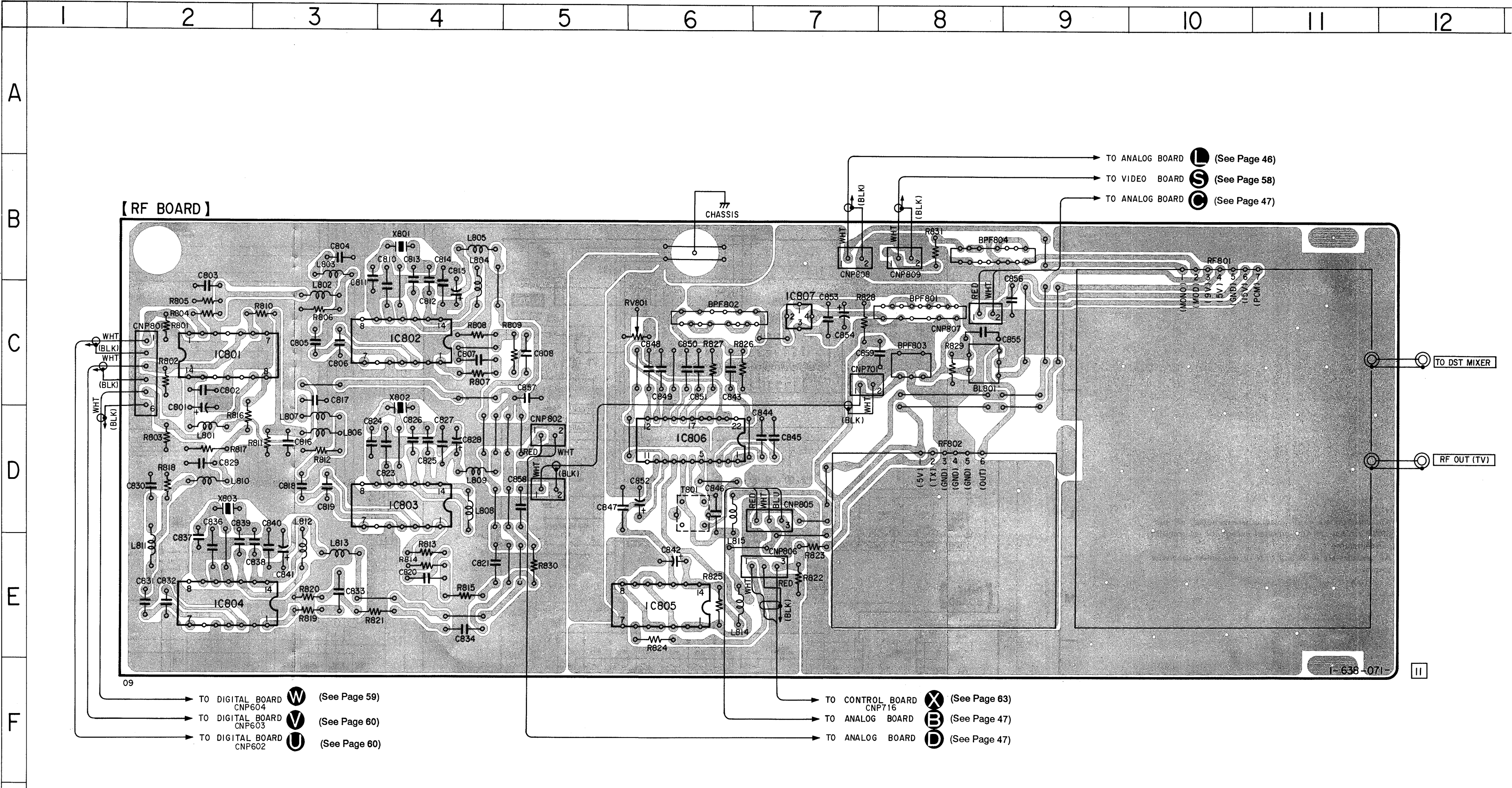


5-9. PRINTED WIRING BOARDS —RF SECTION—  
• See page 75 for Semiconductor Lead Layouts  
• See page 76 to 78 for IC Block Diagrams

• SEMICONDUCTOR LOCATION

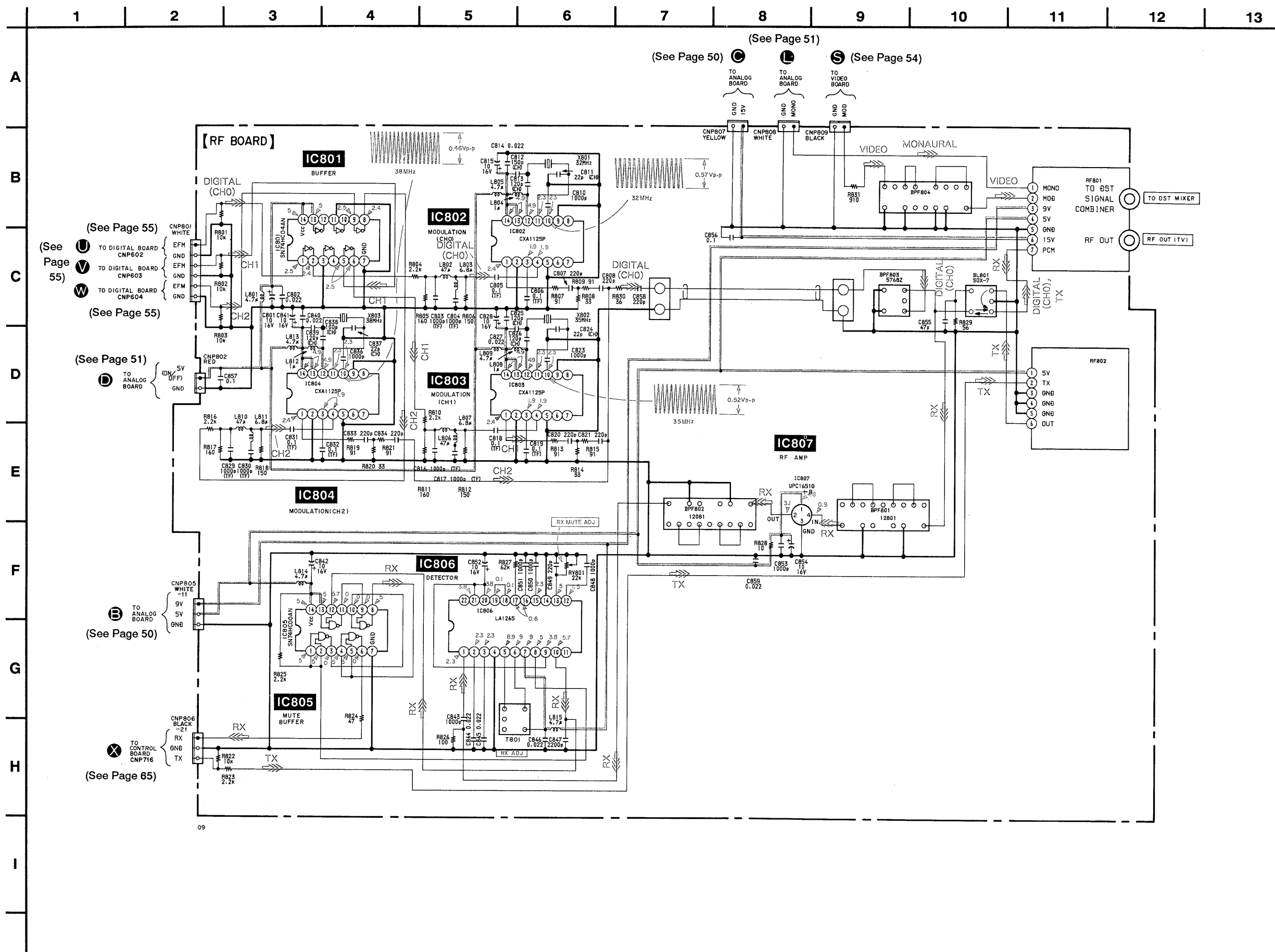
Ref. No.	Location
IC801	C-2
IC802	C-4
IC803	D-4
IC804	E-2
IC805	E-6
IC806	D-6
IC807	C-7

Note:  
• —○— : parts extracted from the component side.  
• ■ : parts mounted on the conductor side.  
• : Pattern on the side which is seen.



## 5-10. SCHEMATIC DIAGRAM —RF SECTION—

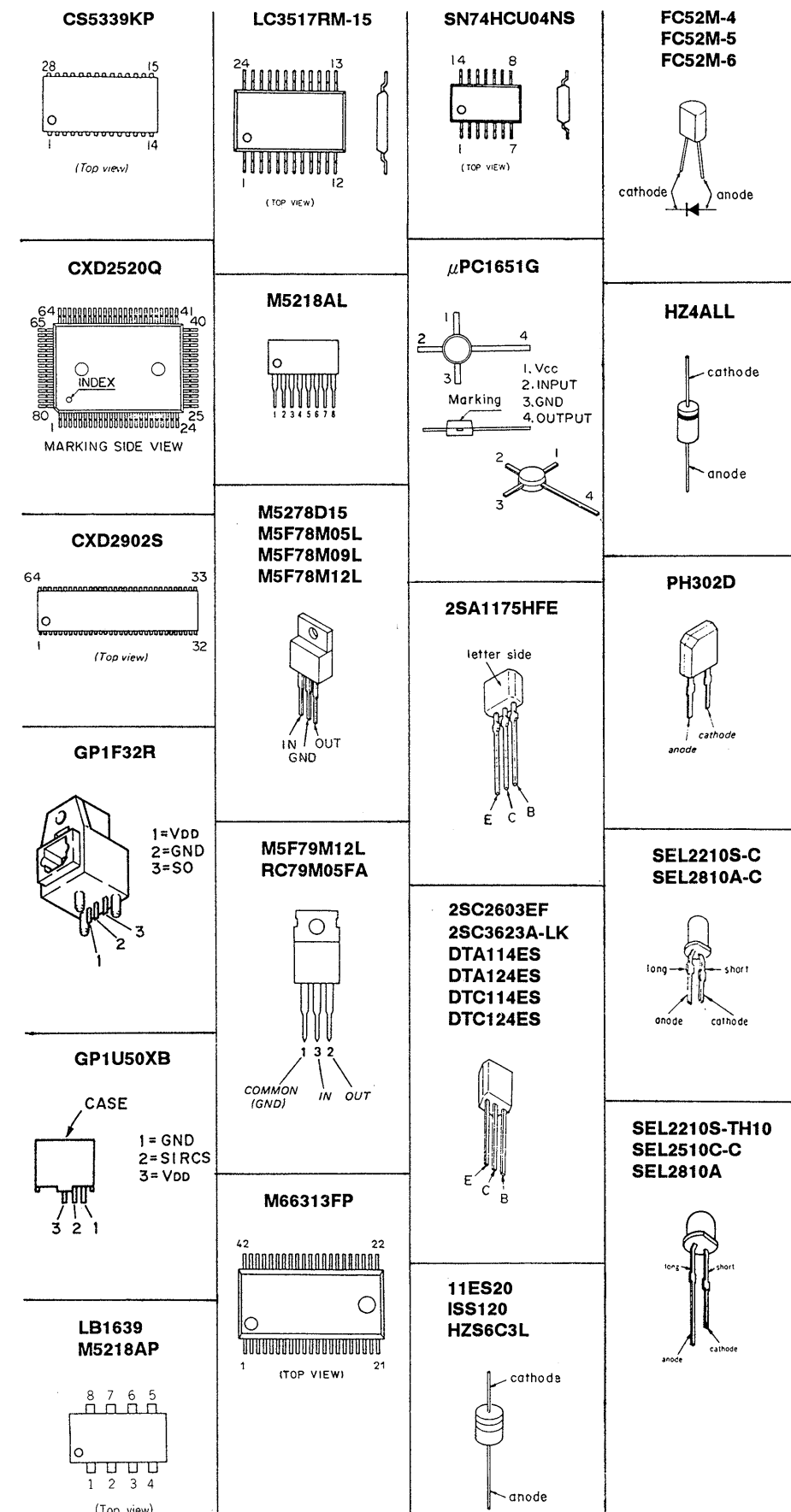
- See page 75 for Semiconductor Lead Layouts
- See page 76 to 78 for IC Block Diagrams



## Note:

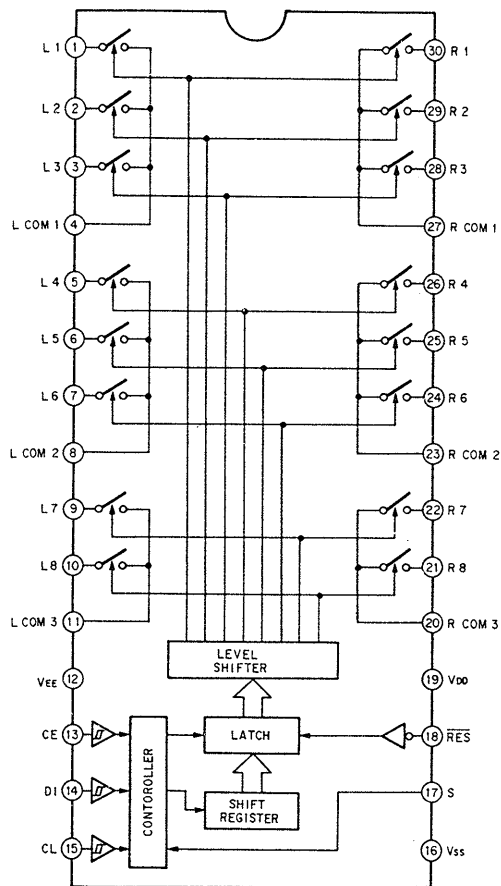
- All capacitors are in  $\mu\text{F}$  unless otherwise noted. pF:  $\mu\text{F}$  50WV or less are not indicated except for electrolytics and tantalums.
  - All resistors are in  $\Omega$  and  $\frac{1}{4}\text{W}$  or less unless otherwise specified.
  - $\text{B+}$  Line
  - $\text{B-}$  Line
  - $\text{adj}$ : adjustment for repair.
  - Voltage and waveforms are dc with respect to ground in CD-1 mode.
  - no mark: CD-1 no signal.
  - ( ): CD-1 optical input.
  - Voltages are taken with a VOM (Input impedance 10M $\Omega$ ). Voltage variations may be noted due to normal production tolerances.
  - Waveforms are taken with an oscilloscope. Voltage variations may be noted due to normal production tolerances.
  - Signal path.
- $\Rightarrow$  : AUDIO/DIGITAL/VIDEO/RX/TX

## 5-11. SEMICONDUCTOR LEAD LAYOUTS

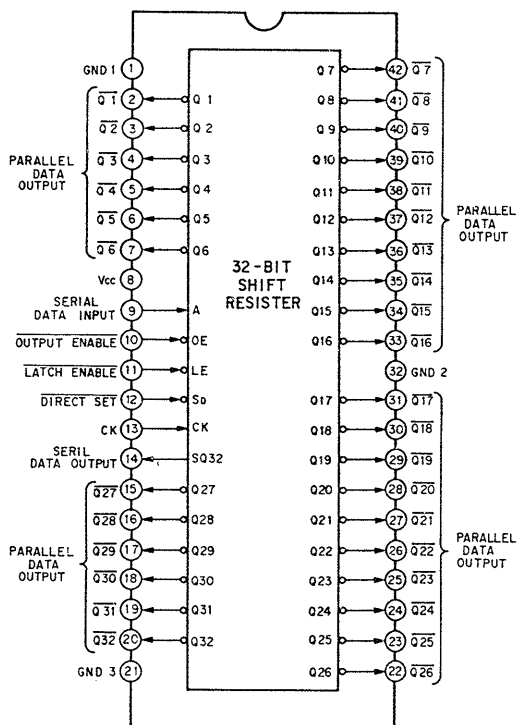


## 5-12. IC BLOCK DIAGRAMS

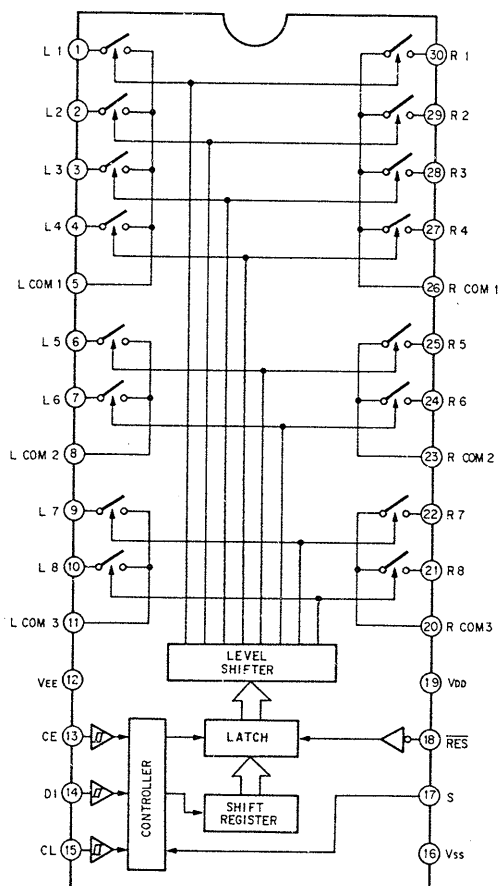
● IC101, 103 LC7822



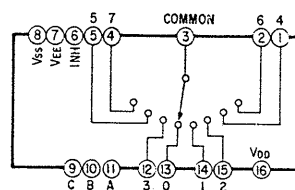
● IC501 M66313FP



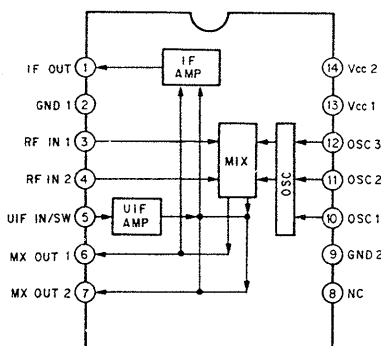
● IC102, 104 LC7821



● IC706, 707 TC74HC4051AP

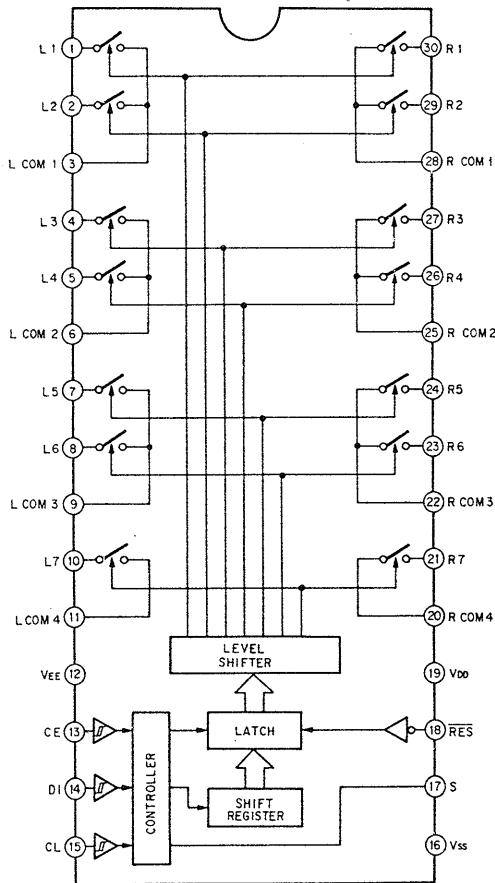


- IC802, 803, 804 CXA1125P

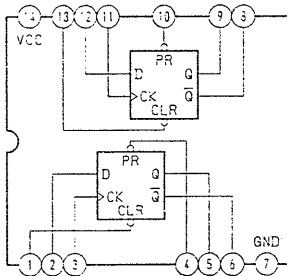




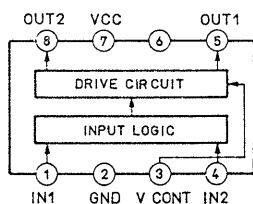
• IC403 LC7823



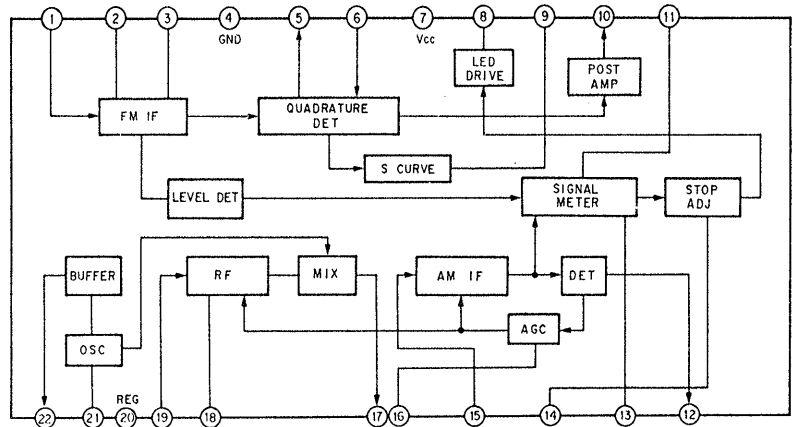
• IC704 SN74HC74AN



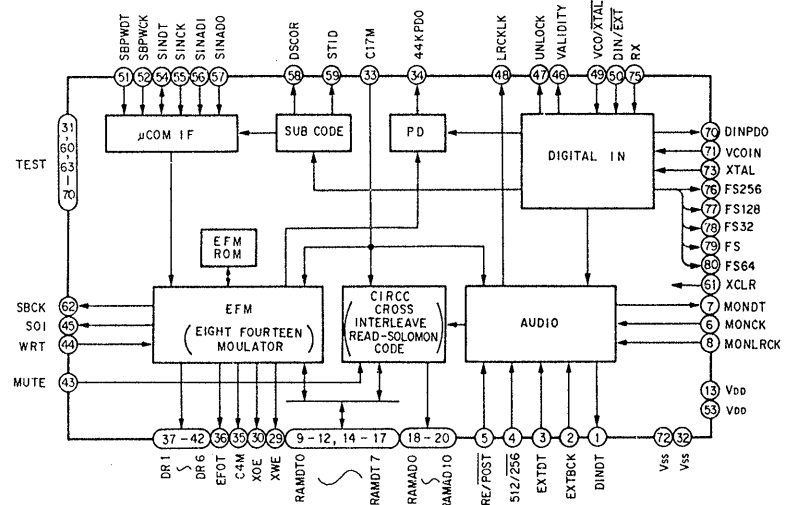
• IC302 LB1639



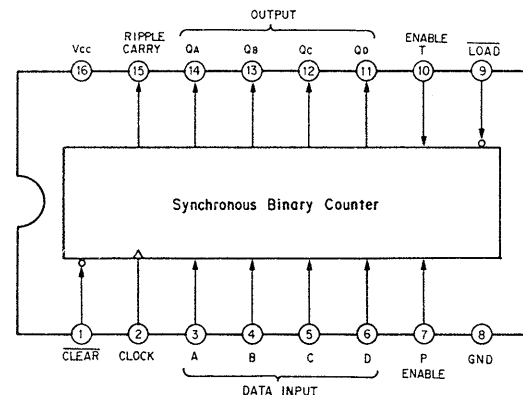
• IC806 LA1265






• IC604, 611, 618 CXD2520Q



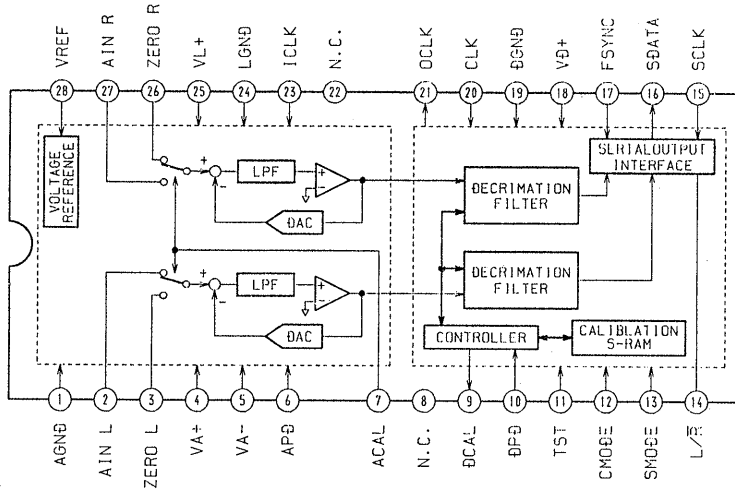
• IC752 SN74HC161AN



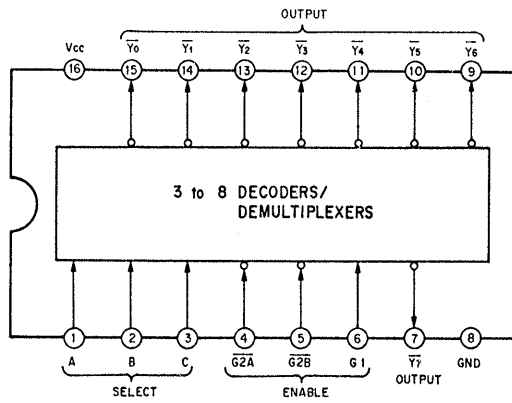
INPUT				OUTPUT				OPERATION		
CLEAR	LOAD	CLOCK	ENABLE		Qa	Qb	Qc		Qd	RIPPLE CARRY
			P	T						
H	H		H	H					—	COUNT
H	L		X	X	Da	Db	Dc	Do	—	DATA SET
	X	X	X	X	L	L	L	L	—	CLEAR
H	X	X	X	H	H	H	H	H		—

X = H or L

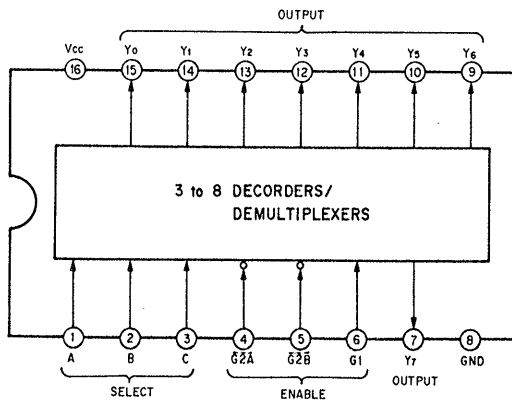
• IC609, 616 CS5339-KP



• IC703 SN74HC138AN



• IC708 SN74HC238N






## EXPLODED VIEWS

## NOTE:

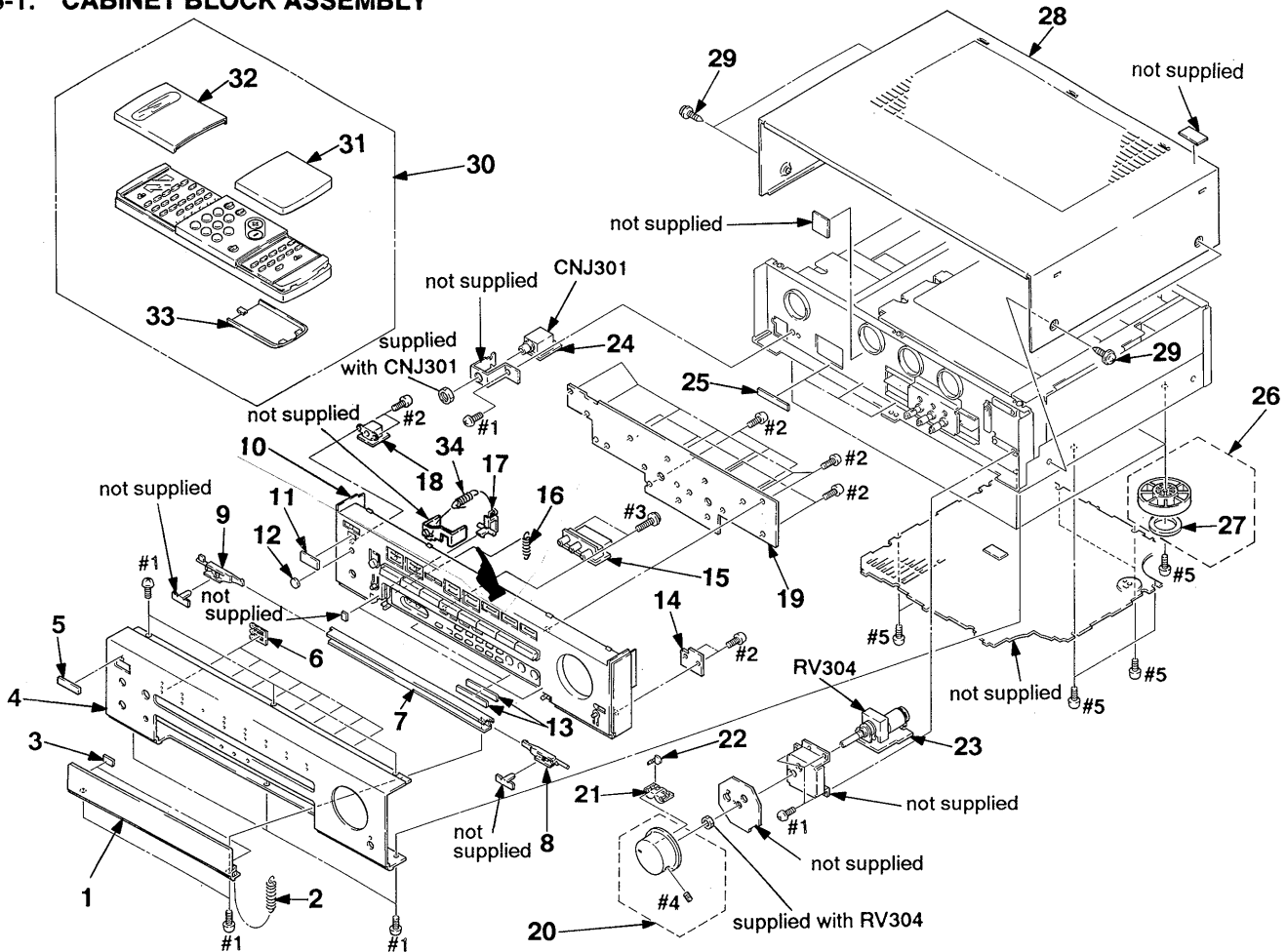
- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- Due to standardization, parts with part number suffix -XX and -X may be different from the parts specified in the components used on the set.
- Hardware (#mark) list is given in the last of this parts list.

The components identified by mark  or dotted line with mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

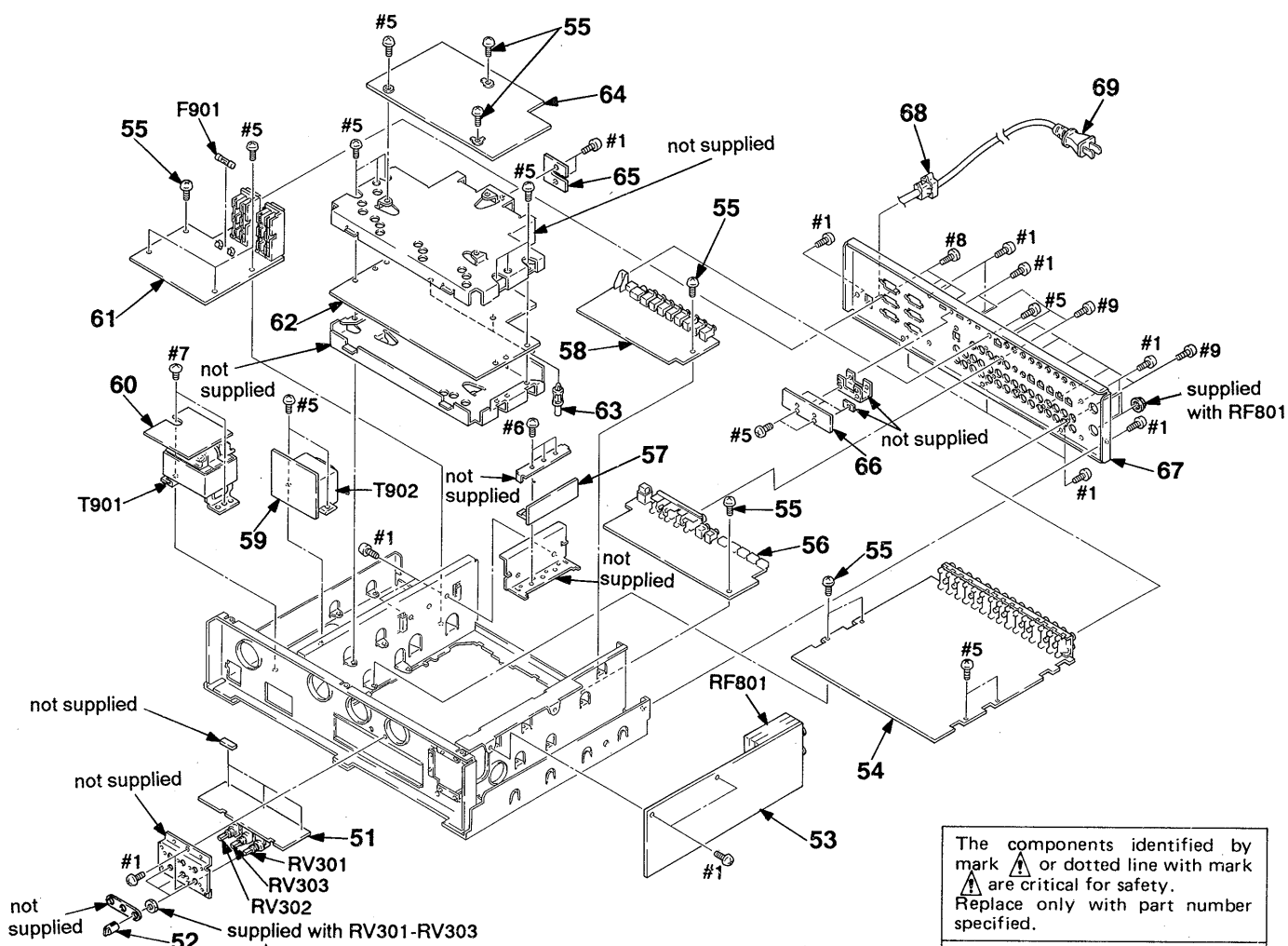
## 6-1. CABINET BLOCK ASSEMBLY



Ref. No.	Part No.	Description	Remark
1	4-943-380-01	LID	
2	4-864-520-00	SPRING, TENSION	
3	3-327-119-01	SPACER, OPEN KNOB	
4	4-943-361-01	PANEL, FRONT	
5	4-908-848-01	EMBLEM, SONY	
6	4-943-376-01	WINDOW (A)	
7	4-943-408-01	COVER	
8	4-943-375-11	SHAFT	
9	4-943-375-01	SHAFT	
10	X-4941-378-1	PANEL ASSY	
11	4-943-378-01	WINDOW (RAY CATCHER A)	
12	4-943-379-01	WINDOW (RAY CATCHER B)	
13	9-911-838-XX	SHEET, RUBBER	
14	* 1-638-080-11	MUTING BOARD	
15	* 1-638-082-11	VIDEO (F) BOARD	
16	3-672-461-00	SPRING, TENSION	
17	4-943-377-03	CATCHER	
18	* 1-638-084-11	RECEIVE BOARD	

Ref. No.	Part No.	Description	Remark
19	* A-4341-456-A	PANEL BOARD, COMPLETE	
20	X-4941-377-1	KNOB (DIA. 52) ASSY	
21	* 4-901-919-00	HOUSE, LED LAMP	
22	* 1-638-085-11	VOL LED BOARD	
23	* 1-638-078-11	MOTOR VOLUME BOARD	
24	* 1-638-083-11	HEADPHONES BOARD	
25	9-911-863-XX	PLATE, BLIND	
26	X-3304-938-2	FOOT ASSY	27
27	4-923-836-11	CUSHION	
28	3-350-407-61	CASE	
29	3-704-366-01	SCREW (CASE) (M3X8)	
30	1-465-655-11	REMOTE COMMANDER (RM-P1)	31-33
31	4-944-034-01	COVER, SLIDE (for RM-P1)	
32	4-944-033-01	COVER, ROTARY (for RM-P1)	
33	4-944-032-01	COVER, BATTERY (for RM-P1)	
CNJ301	1-569-348-11	JACK LARGE TYPE	
RV304	1-241-320-11	RES. VAR, CARBON 120KX2	
34	4-946-086-01	SPRING, TENSION	

## 6-2. CHASSIS BLOCK ASSEMBLY



Ref. No.	Part No.	Description	Remark
51	* 1-638-079-11	TONE BOARD	
52	4-921-921-01	KNOB (M)	
53	* A-4341-451-A	RF BOARD, COMPLETE	
54	* A-4341-448-A	ANALOG BOARD, COMPLETE	
55	3-703-685-21	SCREW (+BV 3X8)	
56	* A-4341-465-A	VIDEO BOARD, COMPLETE	
57	* 1-638-081-11	POWER 2 BOARD	
58	* A-4341-449-A	SIRCS BOARD, COMPLETE	
59	* 1-638-070-11	TRANSFORMER (S) BOARD	
60	* 1-638-074-11	TRANSFORMER (M) BOARD	
61	* A-4341-454-A	POWER SUPPLY (I) BOARD, COMPLETE	
62	* A-4341-464-A	DIGITAL BOARD, COMPLETE	
63	* 3-676-567-00	SPACER	

Ref. No.	Part No.	Description	Remark
64	* A-4341-452-A	CONTROL BOARD, COMPLETE	
65	* 4-923-873-01	BRACKET, CORD STOPPER	
66	* 1-638-076-11	SELECT BOARD	
67	* 4-943-362-01	PANEL, BACK	
68	4-916-783-01	BUSHING, CORD	
69	⚠ 1-559-479-11	CORD, POWER	
F901	⚠ 1-532-739-11	FUSE, GLASS TUBE	
RF801	1-466-468-11	RF MODULATOR	
RV301	1-237-886-11	RES. VAR. CARBON 100K/100K	
RV302	1-241-309-11	RES. VAR. CARBON 100K/100K	
RV303	1-241-309-11	RES. VAR. CARBON 100K/100K	
T901	⚠ 1-450-279-11	TRANSFORMER, POWER	
T902	⚠ 1-450-281-11	TRANSFORMER, POWER	

## 7. ELECTRICAL PARTS LIST

ANALOG

SIRCS

TRANSFORMER (S)

## NOTE:

The components identified by mark  $\Delta$  or dotted line with mark  $\Delta$  are critical for safety. Replace only with part number specified.

Les composants identifiés par une marque  $\Delta$  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

• Due to standardization, replacements in the parts list may be different from the parts specified in the diagrams or the components used on the set.

• -XX, -X mean standardized parts, so they may have some difference from the original one.

## • RESISTORS

All resistors are in ohms

METAL: Metal-film resistor

METAL OXIDE: Metal Oxide-film resistor

F: nonflammable

• Items marked " \* " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

## • SEMICONDUCTORS

In each case, u:  $\mu$ , for example:

uA...:  $\mu$  A..., uPA...:  $\mu$  PA..., uPB...:  $\mu$  PB...,

uPC...:  $\mu$  PC..., uPD...:  $\mu$  PD...

## • CAPACITORS

uF:  $\mu$  F

## • COILS

uH:  $\mu$  H

Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
	* A-4341-448-A	ANALOG BOARD, COMPLETE		C121	1-164-159-11	CERAMIC	0.1uF 50V
	*****			C122	1-164-159-11	CERAMIC	0.1uF 50V
	* A-4341-449-A	SIRCS BOARD, COMPLETE		C123	1-123-369-00	ELECT	4.7uF 20% 50V
	*****			C124	1-123-369-00	ELECT	4.7uF 20% 50V
	* 1-638-070-11	TRANSFORMER (S) BOARD		C125	1-123-332-00	ELECT	47uF 20% 25V
	*****						
	* 1-535-303-00	WIRE, JUMPER		C126	1-123-321-00	ELECT	220uF 20% 16V
	* 3-346-266-12	PLATE, GROUND		C127	1-164-062-11	CERAMIC	47PF 5% 50V
	4-870-539-00	PLATE, GROUND		C128	1-164-062-11	CERAMIC	47PF 5% 50V
	* 4-928-467-01	PLATE (12P), SHIELD		C129	1-123-357-00	ELECT	22uF 20% 50V
				C130	1-123-357-00	ELECT	22uF 20% 50V
	< CAPACITOR >						
C101	1-164-096-11	CERAMIC	0.01uF 50V	C131	1-123-379-00	ELECT	0.47uF 20% 50V
C102	1-164-096-11	CERAMIC	0.01uF 50V	C132	1-123-379-00	ELECT	0.47uF 20% 50V
C103	1-161-379-00	CERAMIC	0.01uF 20% 25V	C133	1-124-122-11	ELECT	100uF 20% 50V
C104	1-164-096-11	CERAMIC	0.01uF 50V	C322	1-164-062-11	CERAMIC	47PF 5% 50V
C105	1-164-096-11	CERAMIC	0.01uF 50V	C323	1-164-062-11	CERAMIC	47PF 5% 50V
C106	1-164-096-11	CERAMIC	0.01uF 50V	C324	1-123-357-00	ELECT	22uF 20% 50V
C107	1-164-096-11	CERAMIC	0.01uF 50V	C325	1-123-357-00	ELECT	22uF 20% 50V
C108	1-164-096-11	CERAMIC	0.01uF 50V	C326	1-123-379-00	ELECT	0.47uF 20% 50V
C109	1-164-096-11	CERAMIC	0.01uF 50V	C327	1-123-379-00	ELECT	0.47uF 20% 50V
C110	1-164-096-11	CERAMIC	0.01uF 50V	C328	1-126-059-11	ELECT	10uF 20% 50V
C111	1-164-096-11	CERAMIC	0.01uF 50V	C329	1-126-059-11	ELECT	10uF 20% 50V
C112	1-164-096-11	CERAMIC	0.01uF 50V	C330	1-123-369-00	ELECT	4.7uF 20% 50V
C113	1-123-332-00	ELECT	47uF 20% 25V	C331	1-123-369-00	ELECT	4.7uF 20% 50V
C114	1-123-332-00	ELECT	47uF 20% 25V	C395	1-164-159-11	CERAMIC	0.1uF 50V
C115	1-126-059-11	ELECT	10uF 20% 50V	C396	1-164-159-11	CERAMIC	0.1uF 50V
C116	1-126-059-11	ELECT	10uF 20% 50V	C397	1-130-471-00	FILM	0.001uF 5% 50V
C117	1-123-369-00	ELECT	4.7uF 20% 50V	C398	1-130-471-00	FILM	0.001uF 5% 50V
C118	1-123-369-00	ELECT	4.7uF 20% 50V	C750	1-126-301-11	ELECT	1uF 20% 50V
C119	1-126-059-11	ELECT	10uF 20% 50V	C751	1-102-973-00	CERAMIC	100PF 5% 50V
C120	1-126-059-11	ELECT	10uF 20% 50V	C752	1-102-973-00	CERAMIC	100PF 5% 50V
				C753	1-164-159-11	CERAMIC	0.1uF 50V
				C754	1-164-159-11	CERAMIC	0.1uF 50V
				C755	1-164-159-11	CERAMIC	0.1uF 50V
				C756	1-164-159-11	CERAMIC	0.1uF 50V

## ANALOG

## SIRCS

## TRANSFORMER (S)

Ref. No.	Part No.	Description	Remark
C757	1-164-159-11	CERAMIC	0. 1uF 50V
C758	1-164-159-11	CERAMIC	0. 1uF 50V
C904	▲ 1-124-564-11	ELECT	4700uF 20% 25V
C905	▲ 1-124-564-11	ELECT	4700uF 20% 25V
C906	1-124-122-11	ELECT	100uF 20% 50V
C907	1-164-159-11	CERAMIC	0. 1uF 50V
C908	1-124-122-11	ELECT	100uF 20% 50V
C909	1-164-159-11	CERAMIC	0. 1uF 50V
C910	1-124-122-11	ELECT	100uF 20% 50V
C911	1-124-122-11	ELECT	100uF 20% 50V
C912	1-164-159-11	CERAMIC	0. 1uF 50V
C913	1-164-159-11	CERAMIC	0. 1uF 50V
C914	▲ 1-124-563-11	ELECT	2200uF 20% 25V
C915	1-124-122-11	ELECT	100uF 20% 50V
C916	1-164-159-11	CERAMIC	0. 1uF 50V
C927	▲ 1-126-040-11	ELECT	1000uF 20% 35V
C928	1-124-478-11	ELECT	100uF 20% 25V
C929	1-164-159-11	CERAMIC	0. 1uF 50V
C930	1-126-101-11	ELECT	100uF 20% 16V
C931	1-164-159-11	CERAMIC	0. 1uF 50V
C932	1-126-101-11	ELECT	100uF 20% 16V
C933	1-164-159-11	CERAMIC	0. 1uF 50V

## &lt; JACK &gt;

CNJ750	1-580-456-11	JACK (SMALL TYPE) (CONTROL S RMR IN)
CNJ751	1-562-981-21	JACK (CONTROL S IN)
CNJ752	1-562-981-21	JACK (CONTROL IR OUT CD 2)
CNJ753	1-562-981-21	JACK (CONTROL IR OUT CD 1)
CNJ754	1-562-981-21	JACK (CONTROL IR OUT TAPE 2)
CNJ755	1-562-981-21	JACK (CONTROL IR OUT TAPE 1)
CNJ756	1-562-981-21	JACK (CONTROL IR OUT VIDEO 2)
CNJ757	1-562-981-21	JACK (CONTROL IR OUT VIDEO 1)
CNJ758	1-562-981-21	JACK (CONTROL IR OUT TUNER)

## &lt; CONNECTOR &gt;

CNP101 *	1-564-506-11	PLUG, CONNECTOR 3P
CNP102 *	1-564-506-11	PLUG, CONNECTOR 3P
CNP103 *	1-564-506-11	PLUG, CONNECTOR 3P
CNP303 *	1-564-506-11	PLUG, CONNECTOR 3P
CNP750	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S OUT)
CNP904 *	1-564-321-00	PIN, CONNECTOR 2P
CNP907 *	1-564-508-11	PLUG, CONNECTOR 5P
CNP908 *	1-564-507-11	PLUG, CONNECTOR 4P
CNP909 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP910 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP911 *	1-564-507-11	PLUG, CONNECTOR 4P
CNP912 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP913 *	1-564-338-00	PIN, CONNECTOR 4P
CNP914 *	1-564-337-00	PIN, CONNECTOR 3P
CNP915 *	1-564-506-11	PLUG, CONNECTOR 3P

Ref. No.	Part No.	Description	Remark
< DIODE >			
D101	8-719-912-20	DIODE 1SS120	
D750	8-719-912-20	DIODE 1SS120	
D751	8-719-912-20	DIODE 1SS120	
D752	8-719-912-20	DIODE 1SS120	
D901	8-719-200-82	DIODE 11ES2	
D902	8-719-200-82	DIODE 11ES2	
D903	8-719-200-82	DIODE 11ES2	
D904	8-719-200-82	DIODE 11ES2	
D905	8-719-200-82	DIODE 11ES2	
D906	8-719-200-82	DIODE 11ES2	
D907	8-719-200-82	DIODE 11ES2	
D908	8-719-200-82	DIODE 11ES2	
D913	8-719-200-82	DIODE 11ES2	
D914	8-719-200-82	DIODE 11ES2	
D915	8-719-200-82	DIODE 11ES2	
D916	8-719-200-82	DIODE 11ES2	
< IC >			
IC101	8-759-805-14	IC LC7822	
IC102	8-759-805-13	IC LC7821	
IC103	8-759-805-14	IC LC7822	
IC104	8-759-805-13	IC LC7821	
IC105	8-759-634-50	IC M5218AL	
IC106	8-759-634-50	IC M5218AL	
IC107	8-759-634-50	IC M5218AL	
IC108	8-759-634-50	IC M5218AL	
IC109	8-759-634-50	IC M5218AL	
IC110	8-759-634-50	IC M5218AL	
IC111	8-759-634-50	IC M5218AL	
IC112	8-759-634-50	IC M5218AL	
IC113	8-759-634-50	IC M5218AL	
IC114	8-759-634-50	IC M5218AL	
IC115	8-759-634-50	IC M5218AL	
IC116	8-759-634-50	IC M5218AL	
IC117	8-759-634-50	IC M5218AL	
IC303	8-759-634-50	IC M5218AL	
IC750	8-759-803-70	IC LC74HC08	
IC751	8-759-803-70	IC LC74HC08	
IC752	8-759-921-19	IC SN74HC161N	
IC753	8-759-000-51	IC MC14069BCP	
IC754	8-759-921-10	IC SN74HC86N	
IC755	8-759-921-10	IC SN74HC86N	
IC903	8-759-604-35	IC M5F78M05L	
IC904	8-759-982-52	IC RC79M05FA	
IC907	8-759-604-37	IC M5F78M09L	
IC908	8-759-604-35	IC M5F78M05L	

## Note:

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

## Note:

Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

## ANALOG

## SIRCS

## TRANSFORMER (S)

Ref. No.	Part No.	Description	Remark
< JACK >			
J101	1-565-320-21	JACK, PIN 6P (CD 1/CD 2/TUNER IN)	
J102	1-565-320-11	JACK, PIN 6P (TAPE 1 OUT, TAPE 2/DAT IN/OUT)	
J103	1-565-320-11	JACK, PIN 6P (TAPE 1, TV/AUX IN, VIDEO 2 AUDIO OUT)	
J104	1-565-320-11	JACK, PIN 6P (VIDEO 2 AUDIO IN, VIDEO 1 AUDIO IN/OUT)	
J105	1-565-320-11	JACK, PIN 6P (ADAPTOR IN/OUT, PRE OUT)	
< TRANSISTOR >			
Q101	8-729-900-63	TRANSISTOR DTA124ES	
Q102	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q103	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q306	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q307	8-729-141-30	TRANSISTOR 2SC3623A-LK	
Q750	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q751	8-729-900-61	TRANSISTOR DTA114ES	
Q752	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q753	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q754	8-729-900-63	TRANSISTOR DTA124ES	
Q755	8-729-900-36	TRANSISTOR DTC124ES	
Q756	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q757	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q758	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q759	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q760	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q761	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q762	8-729-620-05	TRANSISTOR 2SC2603-EF	
< RESISTOR >			
R101	1-249-417-11	CARBON 1K 5% 1/4W	
R102	1-249-417-11	CARBON 1K 5% 1/4W	
R103	1-249-433-11	CARBON 22K 5% 1/4W	
R104	1-249-433-11	CARBON 22K 5% 1/4W	
R105	1-249-433-11	CARBON 22K 5% 1/4W	
R106	1-249-433-11	CARBON 22K 5% 1/4W	
R107	1-249-417-11	CARBON 1K 5% 1/4W	
R108	1-249-417-11	CARBON 1K 5% 1/4W	
R109	1-249-417-11	CARBON 1K 5% 1/4W	
R110	1-249-417-11	CARBON 1K 5% 1/4W	
R111	1-249-417-11	CARBON 1K 5% 1/4W	
R112	1-249-417-11	CARBON 1K 5% 1/4W	
R113	1-249-417-11	CARBON 1K 5% 1/4W	
R114	1-249-417-11	CARBON 1K 5% 1/4W	
R115	1-249-417-11	CARBON 1K 5% 1/4W	
R116	1-249-417-11	CARBON 1K 5% 1/4W	
R117	1-249-413-11	CARBON 470 5% 1/4W	
R118	1-249-413-11	CARBON 470 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R119	1-249-417-11	CARBON 1K 5% 1/4W	
R120	1-249-417-11	CARBON 1K 5% 1/4W	
R121	1-249-413-11	CARBON 470 5% 1/4W	
R122	1-249-413-11	CARBON 470 5% 1/4W	
R123	1-249-413-11	CARBON 470 5% 1/4W	
R124	1-249-413-11	CARBON 470 5% 1/4W	
R125	1-249-413-11	CARBON 470 5% 1/4W	
R126	1-249-413-11	CARBON 470 5% 1/4W	
R127	1-249-413-11	CARBON 470 5% 1/4W	
R128	1-249-413-11	CARBON 470 5% 1/4W	
R129	1-249-437-11	CARBON 47K 5% 1/4W	
R130	1-249-437-11	CARBON 47K 5% 1/4W	
R131	1-249-437-11	CARBON 47K 5% 1/4W	
R132	1-249-437-11	CARBON 47K 5% 1/4W	
R133	1-249-437-11	CARBON 47K 5% 1/4W	
R134	1-249-437-11	CARBON 47K 5% 1/4W	
R135	1-249-437-11	CARBON 47K 5% 1/4W	
R136	1-249-437-11	CARBON 47K 5% 1/4W	
R137	1-249-437-11	CARBON 47K 5% 1/4W	
R138	1-249-437-11	CARBON 47K 5% 1/4W	
R139	1-249-437-11	CARBON 47K 5% 1/4W	
R140	1-249-437-11	CARBON 47K 5% 1/4W	
R141	1-249-437-11	CARBON 47K 5% 1/4W	
R142	1-249-437-11	CARBON 47K 5% 1/4W	
R143	1-249-437-11	CARBON 47K 5% 1/4W	
R144	1-249-437-11	CARBON 47K 5% 1/4W	
R145	1-249-437-11	CARBON 47K 5% 1/4W	
R146	1-249-437-11	CARBON 47K 5% 1/4W	
R147	1-249-437-11	CARBON 47K 5% 1/4W	
R148	1-249-437-11	CARBON 47K 5% 1/4W	
R149	1-249-437-11	CARBON 47K 5% 1/4W	
R150	1-249-437-11	CARBON 47K 5% 1/4W	
R151	1-249-437-11	CARBON 47K 5% 1/4W	
R152	1-249-437-11	CARBON 47K 5% 1/4W	
R153	1-249-437-11	CARBON 47K 5% 1/4W	
R154	1-249-437-11	CARBON 47K 5% 1/4W	
R155	1-249-437-11	CARBON 47K 5% 1/4W	
R156	1-249-437-11	CARBON 47K 5% 1/4W	
R157	1-249-437-11	CARBON 47K 5% 1/4W	
R158	1-249-437-11	CARBON 47K 5% 1/4W	
R159	1-249-437-11	CARBON 47K 5% 1/4W	
R160	1-249-437-11	CARBON 47K 5% 1/4W	
R161	1-249-437-11	CARBON 47K 5% 1/4W	
R162	1-249-437-11	CARBON 47K 5% 1/4W	
R163	1-249-437-11	CARBON 47K 5% 1/4W	
R164	1-249-437-11	CARBON 47K 5% 1/4W	
R165	1-249-429-11	CARBON 10K 5% 1/4W	
R168	1-249-437-11	CARBON 47K 5% 1/4W	

When indicating parts by reference number, please include the board name.

## ANALOG

## SIRCS

## TRANSFORMER (S)

Ref. No.	Part No.	Description	Remark		
R169	1-249-437-11	CARBON	47K	5%	1/4W
R170	1-249-437-11	CARBON	47K	5%	1/4W
R171	1-249-437-11	CARBON	47K	5%	1/4W
R172	1-249-437-11	CARBON	47K	5%	1/4W
R175	1-249-417-11	CARBON	1K	5%	1/4W
R176	1-249-437-11	CARBON	47K	5%	1/4W
R179	1-249-417-11	CARBON	1K	5%	1/4W
R180	1-249-437-11	CARBON	47K	5%	1/4W
R181	1-249-437-11	CARBON	47K	5%	1/4W
R182	1-249-437-11	CARBON	47K	5%	1/4W
R183	1-249-437-11	CARBON	47K	5%	1/4W
R184	1-249-437-11	CARBON	47K	5%	1/4W
R185	1-249-426-11	CARBON	5. 6K	5%	1/4W
R186	1-249-437-11	CARBON	47K	5%	1/4W
R187	1-249-425-11	CARBON	4. 7K	5%	1/4W
R188	1-249-437-11	CARBON	47K	5%	1/4W
R189	1-249-426-11	CARBON	5. 6K	5%	1/4W
R190	1-249-437-11	CARBON	47K	5%	1/4W
R191	1-249-425-11	CARBON	4. 7K	5%	1/4W
R192	1-249-425-11	CARBON	4. 7K	5%	1/4W
R193	1-249-425-11	CARBON	4. 7K	5%	1/4W
R194	1-249-441-11	CARBON	100K	5%	1/4W
R195	1-247-887-00	CARBON	220K	5%	1/4W
R196	1-247-887-00	CARBON	220K	5%	1/4W
R197	1-247-887-00	CARBON	220K	5%	1/4W
R198	1-247-887-00	CARBON	220K	5%	1/4W
R199	1-247-887-00	CARBON	220K	5%	1/4W
R200	1-247-887-00	CARBON	220K	5%	1/4W
R201	1-247-887-00	CARBON	220K	5%	1/4W
R202	1-247-887-00	CARBON	220K	5%	1/4W
R203	1-247-887-00	CARBON	220K	5%	1/4W
R204	1-247-887-00	CARBON	220K	5%	1/4W
R205	1-247-887-00	CARBON	220K	5%	1/4W
R206	1-247-887-00	CARBON	220K	5%	1/4W
R207	1-247-887-00	CARBON	220K	5%	1/4W
R208	1-247-887-00	CARBON	220K	5%	1/4W
R209	1-247-887-00	CARBON	220K	5%	1/4W
R210	1-247-887-00	CARBON	220K	5%	1/4W
R211	1-249-441-11	CARBON	100K	5%	1/4W
R212	1-249-441-11	CARBON	100K	5%	1/4W
R213	1-247-887-00	CARBON	220K	5%	1/4W
R214	1-247-887-00	CARBON	220K	5%	1/4W
R215	1-249-441-11	CARBON	100K	5%	1/4W
R216	1-249-441-11	CARBON	100K	5%	1/4W
R217	1-249-441-11	CARBON	100K	5%	1/4W
R218	1-249-441-11	CARBON	100K	5%	1/4W
R219	1-249-441-11	CARBON	100K	5%	1/4W
R220	1-249-441-11	CARBON	100K	5%	1/4W
R221	1-249-441-11	CARBON	100K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R222	1-249-441-11	CARBON	100K	5%	1/4W
R317	1-249-441-11	CARBON	100K	5%	1/4W
R318	1-249-441-11	CARBON	100K	5%	1/4W
R319	1-249-441-11	CARBON	100K	5%	1/4W
R320	1-249-441-11	CARBON	100K	5%	1/4W
R321	1-249-441-11	CARBON	100K	5%	1/4W
R322	1-249-441-11	CARBON	100K	5%	1/4W
R323	1-249-402-11	CARBON	56	5%	1/4W
R324	1-249-402-11	CARBON	56	5%	1/4W
R325	1-249-421-11	CARBON	2. 2K	5%	1/4W
R326	1-249-421-11	CARBON	2. 2K	5%	1/4W
R398	1-249-441-11	CARBON	100K	5%	1/4W
R399	1-249-441-11	CARBON	100K	5%	1/4W
R750	1-249-421-11	CARBON	2. 2K	5%	1/4W
R751	1-249-429-11	CARBON	10K	5%	1/4W
R752	1-249-393-11	CARBON	10	5%	1/4W
R753	1-249-405-11	CARBON	100	5%	1/4W
R754	1-247-736-11	CARBON	56	5%	1/2W
R757	1-249-421-11	CARBON	2. 2K	5%	1/4W
R758	1-249-429-11	CARBON	10K	5%	1/4W
R759	1-249-429-11	CARBON	10K	5%	1/4W
R760	1-249-429-11	CARBON	10K	5%	1/4W
R761	1-249-426-11	CARBON	5. 6K	5%	1/4W
R762	1-249-398-11	CARBON	27	5%	1/4W
R763	1-249-426-11	CARBON	5. 6K	5%	1/4W
R764	1-249-398-11	CARBON	27	5%	1/4W
R765	1-249-426-11	CARBON	5. 6K	5%	1/4W
R766	1-249-398-11	CARBON	27	5%	1/4W
R767	1-249-426-11	CARBON	5. 6K	5%	1/4W
R768	1-249-398-11	CARBON	27	5%	1/4W
R769	1-249-426-11	CARBON	5. 6K	5%	1/4W
R770	1-249-398-11	CARBON	27	5%	1/4W
R771	1-249-426-11	CARBON	5. 6K	5%	1/4W
R772	1-249-398-11	CARBON	27	5%	1/4W
R773	1-249-426-11	CARBON	5. 6K	5%	1/4W
R774	1-249-398-11	CARBON	27	5%	1/4W
R775	1-247-903-00	CARBON	1M	5%	1/4W
R776	1-249-429-11	CARBON	10K	5%	1/4W
R778	1-249-429-11	CARBON	10K	5%	1/4W
R779	1-249-429-11	CARBON	10K	5%	1/4W
< VARIABLE RESISTOR >					
RV750	1-238-013-11	RES. ADJ. CARBON 2. 2K			
RV751	1-238-013-11	RES. ADJ. CARBON 2. 2K			
RV752	1-238-013-11	RES. ADJ. CARBON 2. 2K			
RV753	1-238-013-11	RES. ADJ. CARBON 2. 2K			
RV754	1-238-013-11	RES. ADJ. CARBON 2. 2K			
RV755	1-238-013-11	RES. ADJ. CARBON 2. 2K			
RV756	1-238-013-11	RES. ADJ. CARBON 2. 2K			

When indicating parts by reference number, please include the board name.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
< TRANSFORMER >				C724	1-164-159-11	CERAMIC	0. 1uF 50V
T902	▲ 1-450-281-11	TRANSFORMER, POWER		C725	1-164-159-11	CERAMIC	0. 1uF 50V
< VIBRATOR >				C726	1-162-282-31	CERAMIC	100PF 10% 50V
X704	1-579-176-11	VIBRATOR, CERAMIC (640KHz)		C727	1-126-157-11	ELECT	10uF 20% 16V
*****				C728	1-164-159-11	CERAMIC	0. 1uF 50V
* A-4341-452-A CONTROL BOARD, COMPLETE				C729	1-164-159-11	CERAMIC	0. 1uF 50V
*****				C730	1-164-159-11	CERAMIC	0. 1uF 50V
* A-4341-451-A RF BOARD, COMPLETE				C731	1-164-159-11	CERAMIC	0. 1uF 50V
*****				C732	1-164-159-11	CERAMIC	0. 1uF 50V
* 1-638-074-11 TRANSFORMER (M) BOARD				C733	1-164-159-11	CERAMIC	0. 1uF 50V
*****				C801	1-126-157-11	ELECT	10uF 20% 16V
1-239-017-11 ENCAPSULATED COMPONENT (HPF)				C802	1-161-494-00	CERAMIC	0. 022uF 25V
1-239-018-11 ENCAPSULATED COMPONENT (LPF)				C803	1-130-471-00	MYLAR	0. 001uF 5% 50V
1-417-200-11 SEPARATOR				C804	1-130-471-00	MYLAR	0. 001uF 5% 50V
* 3-346-266-12 PLATE, GROUND				C805	1-136-165-00	FILM	0. 1uF 5% 50V
4-870-539-00 PLATE, GROUND				C806	1-136-165-00	FILM	0. 1uF 5% 50V
< SEPARATOR >				C807	1-162-286-31	CERAMIC	220PF 10% 50V
BL801	1-417-200-11	SEPARATOR		C808	1-162-286-31	CERAMIC	220PF 10% 50V
< FILTER >				C810	1-162-294-31	CERAMIC	0. 001uF 10% 50V
BPF801	1-236-992-11	ENCAPSULATED COMPONENT (BPF)		C811	1-164-027-11	CERAMIC	22PF 5% 50V
BPF802	1-236-992-11	ENCAPSULATED COMPONENT (BPF)		C812	1-162-284-11	CERAMIC	150PF 5% 50V
BPF803	1-424-476-11	COIL (FILTER)		C813	1-162-283-11	CERAMIC	120PF 5% 50V
BPF804	1-466-004-11	FILTER UNIT, LOW PASS		C814	1-161-494-00	CERAMIC	0. 022uF 25V
< CAPACITOR >				C815	1-126-157-11	ELECT	10uF 20% 16V
C703	1-125-486-11	DUBLE LAYERS	0. 22F 5. 5V	C816	1-130-471-00	MYLAR	0. 001uF 5% 50V
C704	1-126-177-11	ELECT	100uF 20% 10V	C817	1-130-471-00	MYLAR	0. 001uF 5% 50V
C705	1-164-159-11	CERAMIC	0. 1uF 50V	C818	1-136-165-00	FILM	0. 1uF 5% 50V
C706	1-102-963-00	CERAMIC	33PF 5% 50V	C819	1-136-165-00	FILM	0. 1uF 5% 50V
C707	1-102-963-00	CERAMIC	33PF 5% 50V	C820	1-162-286-31	CERAMIC	220PF 10% 50V
C709	1-164-159-11	CERAMIC	0. 1uF 50V	C821	1-162-286-31	CERAMIC	220PF 10% 50V
C711	1-164-159-11	CERAMIC	0. 1uF 50V	C823	1-162-294-31	CERAMIC	0. 001uF 10% 50V
C712	1-126-177-11	ELECT	100uF 20% 10V	C824	1-164-027-11	CERAMIC	22PF 5% 50V
C713	1-164-159-11	CERAMIC	0. 1uF 50V	C825	1-162-283-11	CERAMIC	120PF 5% 50V
C714	1-102-961-00	CERAMIC	27PF 5% 50V	C826	1-162-283-11	CERAMIC	120PF 5% 50V
C715	1-102-961-00	CERAMIC	27PF 5% 50V	C827	1-161-494-00	CERAMIC	0. 022uF 25V
C716	1-125-486-11	DUBLE LAYERS	0. 22F 5. 5V	C828	1-126-157-11	ELECT	10uF 20% 16V
C717	1-126-177-11	ELECT	100uF 20% 10V	C829	1-130-471-00	MYLAR	0. 001uF 5% 50V
C718	1-164-159-11	CERAMIC	0. 1uF 50V	C830	1-130-471-00	MYLAR	0. 001uF 5% 50V
C719	1-126-154-11	ELECT	47uF 20% 6. 3V	C831	1-136-165-00	FILM	0. 1uF 5% 50V
C720	1-164-159-11	CERAMIC	0. 1uF 50V	C832	1-136-165-00	FILM	0. 1uF 5% 50V
C721	1-102-963-00	CERAMIC	33PF 5% 50V	C833	1-162-286-31	CERAMIC	220PF 10% 50V
C722	1-102-963-00	CERAMIC	33PF 5% 50V	C834	1-162-286-31	CERAMIC	220PF 10% 50V
C723	1-126-163-11	ELECT	4. 7uF 20% 50V	C836	1-162-294-31	CERAMIC	0. 001uF 10% 50V
				C837	1-164-027-11	CERAMIC	22PF 5% 50V
				C838	1-162-282-11	CERAMIC	100PF 5% 50V
				C839	1-162-283-11	CERAMIC	120PF 5% 50V
				C840	1-161-494-00	CERAMIC	0. 022uF 25V
				C841	1-126-157-11	ELECT	10uF 20% 16V
				C842	1-126-157-11	ELECT	10uF 20% 16V

**Note:**

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

**Note:**

Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

CONTROL	RF	TRANSFORMER (M)
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Ref. No.	Part No.	Description	Remark
C843	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C844	1-161-494-00	CERAMIC 0.022uF 25V	
C845	1-161-494-00	CERAMIC 0.022uF 25V	
C846	1-161-494-00	CERAMIC 0.022uF 25V	
C847	1-161-375-00	CERAMIC 0.0022uF 20% 50V	
C848	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C849	1-162-286-31	CERAMIC 220PF 10% 50V	
C850	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C851	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C852	1-126-157-11	ELECT 10uF 20% 16V	
C853	1-162-294-31	CERAMIC 0.001uF 10% 50V	
C854	1-126-157-11	ELECT 10uF 20% 16V	
C855	1-162-215-31	CERAMIC 47PF 5% 50V	
C856	1-164-159-11	CERAMIC 0.1uF 50V	
C857	1-164-159-11	CERAMIC 0.1uF 50V	
C858	1-162-286-31	CERAMIC 220PF 10% 50V	
C859	1-164-097-11	CERAMIC 0.022uF 50V	

## &lt; CONNECTOR &gt;

CNP701 *	1-564-506-11	PLUG, CONNECTOR 3P
CNP702 *	1-564-338-71	PIN, CONNECTOR 4P
CNP703 *	1-564-337-71	PIN, CONNECTOR 3P
CNP704 *	1-564-342-61	PIN, CONNECTOR 8P
CNP705 *	1-564-337-81	PIN, CONNECTOR 3P
CNP706 *	1-564-508-11	PLUG, CONNECTOR 5P
CNP707 *	1-564-338-00	PIN, CONNECTOR 4P
CNP708 *	1-564-338-61	PIN, CONNECTOR 4P
CNP709 *	1-564-342-11	PIN, CONNECTOR 8P
CNP710 *	1-564-340-00	PIN, CONNECTOR 6P
CNP711 *	1-564-337-61	PIN, CONNECTOR 3P
CNP712 *	1-564-341-11	PIN, CONNECTOR 7P
CNP713 *	1-564-341-11	PIN, CONNECTOR 7P
CNP714 *	1-564-338-61	PIN, CONNECTOR 4P
CNP715 *	1-564-340-61	PIN, CONNECTOR 6P
CNP716 *	1-564-506-11	PLUG, CONNECTOR 3P
CNP717 *	1-564-339-61	PIN, CONNECTOR 5P
CNP718 *	1-564-337-00	PIN, CONNECTOR 3P
CNP719 *	1-564-339-71	PIN, CONNECTOR 5P
CNP720 *	1-564-337-71	PIN, CONNECTOR 3P
CNP721 *	1-564-337-00	PIN, CONNECTOR 3P
CNP722 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP801 *	1-564-509-11	PLUG, CONNECTOR 6P
CNP802 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP805 *	1-564-506-11	PLUG, CONNECTOR 3P
CNP806 *	1-564-506-21	PLUG, CONNECTOR 3P
CNP807 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP808 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP809 *	1-564-505-11	PLUG, CONNECTOR 2P
CNP903 *	1-564-321-00	PIN, CONNECTOR 2P

Ref. No.	Part No.	Description	Remark
		< DIODE >	
D708	8-719-912-20	DIODE 1SS120	
D709	8-719-912-20	DIODE 1SS120	
D710	8-719-912-20	DIODE 1SS120	

## &lt; IC &gt;

IC701	8-759-152-23	IC uPD78224GJ-559-58G
IC702	8-759-510-05	IC CXD2902S
IC703	8-759-917-43	IC SN74HC138N
IC704	8-759-916-29	IC SN74HC74N
IC705	8-759-152-96	IC uPD17203GC-530-38H
IC706	8-759-007-19	IC MC74HC4051N
IC707	8-759-007-19	IC MC74HC4051N
IC708	8-759-916-64	IC SN74HC238N
IC709	8-759-803-70	IC LC74HC08
IC710	8-759-803-70	IC LC74HC08
IC801	8-759-916-14	IC SN74HC04N
IC802	8-752-031-84	IC CXA1125P
IC803	8-752-031-84	IC CXA1125P
IC804	8-752-031-84	IC CXA1125P
IC805	8-759-916-12	IC SN74HC00N
IC806	8-759-801-81	IC LA1265
IC807	8-759-107-67	IC uPC1651G

## &lt; COIL &gt;

L702	1-410-324-11	INDUCTOR 4.7uH
L703	1-410-324-11	INDUCTOR 4.7uH
L704	1-410-324-11	INDUCTOR 4.7uH
L705	1-410-324-11	INDUCTOR 4.7uH
L706	1-410-324-11	INDUCTOR 4.7uH
L707	1-410-324-11	INDUCTOR 4.7uH
L801	1-410-324-11	INDUCTOR 4.7uH
L802	1-410-517-11	INDUCTOR 47uH
L803	1-408-561-21	INDUCTOR 6.8uH
L804	1-410-316-11	INDUCTOR 1uH
L805	1-410-324-11	INDUCTOR 4.7uH
L806	1-410-517-11	INDUCTOR 47uH
L807	1-408-561-21	INDUCTOR 6.8uH
L808	1-410-316-11	INDUCTOR 1uH
L809	1-410-324-11	INDUCTOR 4.7uH
L810	1-410-517-11	INDUCTOR 47uH
L811	1-408-561-21	INDUCTOR 6.8uH
L812	1-410-316-11	INDUCTOR 1uH
L813	1-410-324-11	INDUCTOR 4.7uH
L814	1-410-324-11	INDUCTOR 4.7uH
L815	1-410-324-11	INDUCTOR 4.7uH

When indicating parts by reference number, please include the board name.

## CONTROL

## RF

## TRANSFORMER (M)

## DIGITAL

## VIDEO

Ref. No.	Part No.	Description	Remark
< RESISTOR >			
R722	1-249-405-11	CARBON 100	5% 1/4W
R723	1-249-437-11	CARBON 47K	5% 1/4W
R724	1-249-417-11	CARBON 1K	5% 1/4W
R725	1-249-437-11	CARBON 47K	5% 1/4W
R726	1-247-903-00	CARBON 1M	5% 1/4W
R727	1-249-405-11	CARBON 100	5% 1/4W
R728	1-247-903-00	CARBON 1M	5% 1/4W
R729	1-249-425-11	CARBON 4.7K	5% 1/4W
R730	1-247-878-00	CARBON 91K	5% 1/4W
R731	1-249-440-11	CARBON 82K	5% 1/4W
R732	1-247-890-11	CARBON 300K	5% 1/4W
R733	1-249-428-11	CARBON 8.2K	5% 1/4W
R734	1-249-425-11	CARBON 4.7K	5% 1/4W
R735	1-249-435-11	CARBON 33K	5% 1/4W
R736	1-249-411-11	CARBON 330	5% 1/4W
R801	1-249-429-11	CARBON 10K	5% 1/4W
R802	1-249-429-11	CARBON 10K	5% 1/4W
R803	1-249-429-11	CARBON 10K	5% 1/4W
R804	1-249-421-11	CARBON 2.2K	5% 1/4W
R805	1-247-812-11	CARBON 160	5% 1/4W
R806	1-249-407-11	CARBON 150	5% 1/4W
R807	1-247-806-11	CARBON 91	5% 1/4W
R808	1-249-399-11	CARBON 33	5% 1/4W
R809	1-247-806-11	CARBON 91	5% 1/4W
R810	1-249-421-11	CARBON 2.2K	5% 1/4W
R811	1-247-812-11	CARBON 160	5% 1/4W
R812	1-249-407-11	CARBON 150	5% 1/4W
R813	1-247-806-11	CARBON 91	5% 1/4W
R814	1-249-399-11	CARBON 33	5% 1/4W
R815	1-247-806-11	CARBON 91	5% 1/4W
R816	1-249-421-11	CARBON 2.2K	5% 1/4W
R817	1-247-812-11	CARBON 160	5% 1/4W
R818	1-249-407-11	CARBON 150	5% 1/4W
R819	1-247-806-11	CARBON 91	5% 1/4W
R820	1-249-399-11	CARBON 33	5% 1/4W
R821	1-247-806-11	CARBON 91	5% 1/4W
R822	1-249-429-11	CARBON 10K	5% 1/4W
R823	1-249-421-11	CARBON 2.2K	5% 1/4W
R824	1-249-401-11	CARBON 47	5% 1/4W
R825	1-249-421-11	CARBON 2.2K	5% 1/4W
R826	1-249-405-11	CARBON 100	5% 1/4W
R827	1-247-874-11	CARBON 62K	5% 1/4W
R828	1-249-393-11	CARBON 10	5% 1/4W
R829	1-249-402-11	CARBON 56	5% 1/4W
R830	1-247-796-11	CARBON 36	5% 1/4W
R831	1-247-830-11	CARBON 910	5% 1/4W

Ref. No.	Part No.	Description	Remark
< RF MODULATOR >			
RF801	1-466-468-11	RF MODULATOR (TO DST MIXER/RF OUT (TV))	
RF802	1-236-996-11	ENCAPSULATED COMPONENT	
< VARIABLE RESISTOR >			
RV801	1-238-017-11	RES. ADJ. CARBON 22K	
< TRANSFORMER >			
T801	1-404-947-11	TRANSFORMER, DISCRIMINATOR	
< VIBRATOR >			
X701	1-567-797-11	VIBRATOR, CERAMIC (12MHz)	
X702	1-579-177-11	VIBRATOR, CRYSTAL (10.48576MHz)	
X703	1-567-738-11	VIBRATOR, CERAMIC (4.0MHz)	
X801	1-579-256-11	VIBRATOR, CRYSTAL (32MHz)	
X802	1-527-948-00	VIBRATOR, CRYSTAL (35MHz)	
X803	1-579-257-11	VIBRATOR, CRYSTAL (38MHz)	
*****			
* A-4341-464-A DIGITAL BOARD, COMPLETE			
*****			
* A-4341-465-A VIDEO BOARD, COMPLETE			
*****			
* 3-346-266-12 PLATE, GROUND			
* 4-904-446-01 PLATE, GROUND			
< CAPACITOR >			
C401	1-124-471-00	ELECT 1000uF	20% 6.3V
C402	1-124-471-00	ELECT 1000uF	20% 6.3V
C403	1-124-471-00	ELECT 1000uF	20% 6.3V
C404	1-124-471-00	ELECT 1000uF	20% 6.3V
C405	1-123-875-11	ELECT 10uF	20% 50V
C406	1-123-875-11	ELECT 10uF	20% 50V
C407	1-123-875-11	ELECT 10uF	20% 50V
C408	1-123-875-11	ELECT 10uF	20% 50V
C409	1-126-101-11	ELECT 100uF	20% 16V
C410	1-123-875-11	ELECT 10uF	20% 50V
C411	1-164-159-11	CERAMIC 0.1uF	50V
C412	1-123-875-11	ELECT 10uF	20% 50V
C413	1-164-159-11	CERAMIC 0.1uF	50V
C414	1-161-379-00	CERAMIC 0.01uF	20% 25V
C415	1-161-379-00	CERAMIC 0.01uF	20% 25V
C416	1-161-379-00	CERAMIC 0.01uF	20% 25V
C417	1-123-875-11	ELECT 10uF	20% 50V
C418	1-164-159-11	CERAMIC 0.1uF	50V
C419	1-164-159-11	CERAMIC 0.1uF	50V
C601	1-124-477-11	ELECT 47uF	20% 25V

When indicating parts by reference number, please include the board name.

## DIGITAL

## VIDEO

Ref. No.	Part No.	Description	Remark	
C602	1-164-159-11	CERAMIC	0.1uF	50V
C603	1-126-157-11	ELECT	10uF	20% 16V
C604	1-164-159-11	CERAMIC	0.1uF	50V
C605	1-136-153-00	FILM	0.01uF	5% 50V
C606	1-123-357-00	ELECT	22uF	20% 35V
C607	1-126-157-11	ELECT	10uF	20% 16V
C608	1-164-159-11	CERAMIC	0.1uF	50V
C609	1-136-177-00	FILM	1uF	5% 50V
C610	1-164-097-11	CERAMIC	0.022uF	50V
C611	1-102-971-00	CERAMIC	82PF	5% 50V
C612	1-102-963-00	CERAMIC	33PF	5% 50V
C613	1-126-157-11	ELECT	10uF	20% 16V
C614	1-126-177-11	ELECT	100uF	20% 10V
C615	1-164-159-11	CERAMIC	0.1uF	50V
C616	1-126-177-11	ELECT	100uF	20% 10V
C617	1-164-159-11	CERAMIC	0.1uF	50V
C618	1-126-154-11	ELECT	47uF	20% 6.3V
C619	1-164-159-11	CERAMIC	0.1uF	50V
C620	1-126-157-11	ELECT	10uF	20% 16V
C621	1-136-177-00	FILM	1uF	5% 50V
C622	1-164-097-11	CERAMIC	0.022uF	50V
C623	1-101-880-00	CERAMIC	47PF	5% 50V
C624	1-162-199-31	CERAMIC	10PF	5% 50V
C625	1-101-880-00	CERAMIC	47PF	5% 50V
C626	1-126-157-11	ELECT	10uF	20% 16V
C627	1-126-177-11	ELECT	100uF	20% 10V
C628	1-164-159-11	CERAMIC	0.1uF	50V
C629	1-126-059-11	ELECT	10uF	20% 50V
C630	1-126-059-11	ELECT	10uF	20% 50V
C631	1-126-059-11	ELECT	10uF	20% 50V
C632	1-126-059-11	ELECT	10uF	20% 50V
C633	1-130-479-00	MYLAR	0.0047uF	5% 50V
C634	1-164-159-11	CERAMIC	0.1uF	50V
C635	1-123-332-00	ELECT	47uF	20% 25V
C636	1-164-159-11	CERAMIC	0.1uF	50V
C637	1-123-332-00	ELECT	47uF	20% 25V
C638	1-164-159-11	CERAMIC	0.1uF	50V
C639	1-123-330-00	ELECT	22uF	20% 25V
C640	1-164-159-11	CERAMIC	0.1uF	50V
C641	1-123-330-00	ELECT	22uF	20% 25V
C642	1-164-159-11	CERAMIC	0.1uF	50V
C643	1-130-479-00	MYLAR	0.0047uF	5% 50V
C644	1-123-332-00	ELECT	47uF	20% 25V
C645	1-164-159-11	CERAMIC	0.1uF	50V
C646	1-126-157-11	ELECT	10uF	20% 16V
C647	1-126-177-11	ELECT	100uF	20% 10V
C648	1-164-159-11	CERAMIC	0.1uF	50V
C649	1-126-177-11	ELECT	100uF	20% 10V
C650	1-164-159-11	CERAMIC	0.1uF	50V

Ref. No.	Part No.	Description	Remark	
C651	1-126-154-11	ELECT	47uF	20% 6.3V
C652	1-136-177-00	FILM	1uF	5% 50V
C653	1-164-097-11	CERAMIC	0.022uF	50V
C654	1-101-880-00	CERAMIC	47PF	5% 50V
C655	1-162-199-31	CERAMIC	10PF	5% 50V
C656	1-101-880-00	CERAMIC	47PF	5% 50V
C657	1-126-157-11	ELECT	10uF	20% 16V
C658	1-164-159-11	CERAMIC	0.1uF	50V
C659	1-126-157-11	ELECT	10uF	20% 16V
C660	1-126-177-11	ELECT	100uF	20% 10V
C661	1-164-159-11	CERAMIC	0.1uF	50V
C662	1-126-059-11	ELECT	10uF	20% 50V
C663	1-126-059-11	ELECT	10uF	20% 50V
C664	1-126-059-11	ELECT	10uF	20% 50V
C665	1-126-059-11	ELECT	10uF	20% 50V
C666	1-130-479-00	MYLAR	0.0047uF	5% 50V
C667	1-164-159-11	CERAMIC	0.1uF	50V
C668	1-123-332-00	ELECT	47uF	20% 25V
C669	1-164-159-11	CERAMIC	0.1uF	50V
C670	1-123-332-00	ELECT	47uF	20% 25V
C671	1-164-159-11	CERAMIC	0.1uF	50V
C672	1-123-330-00	ELECT	22uF	20% 25V
C673	1-164-159-11	CERAMIC	0.1uF	50V
C674	1-123-330-00	ELECT	22uF	20% 25V
C675	1-164-159-11	CERAMIC	0.1uF	50V
C676	1-130-479-00	MYLAR	0.0047uF	5% 50V
C677	1-123-332-00	ELECT	47uF	20% 25V
C678	1-164-159-11	CERAMIC	0.1uF	50V
C679	1-102-951-00	CERAMIC	15PF	5% 50V
C680	1-102-963-00	CERAMIC	33PF	5% 50V
C681	1-126-157-11	ELECT	10uF	20% 16V
C682	1-126-177-11	ELECT	100uF	20% 10V
C683	1-164-159-11	CERAMIC	0.1uF	50V
C684	1-126-177-11	ELECT	100uF	20% 10V
C685	1-164-159-11	CERAMIC	0.1uF	50V
C686	1-126-154-11	ELECT	47uF	20% 6.3V
C687	1-136-177-00	FILM	1uF	5% 50V
C688	1-164-097-11	CERAMIC	0.022uF	50V
C689	1-101-880-00	CERAMIC	47PF	5% 50V
C690	1-162-199-31	CERAMIC	10PF	5% 50V
C691	1-101-880-00	CERAMIC	47PF	5% 50V
C692	1-126-157-11	ELECT	10uF	20% 16V
C693	1-164-159-11	CERAMIC	0.1uF	50V
C694	1-126-157-11	ELECT	10uF	20% 16V
C695	1-126-177-11	ELECT	100uF	20% 10V
C696	1-164-159-11	CERAMIC	0.1uF	50V
C701	1-123-875-11	ELECT	10uF	20% 50V
C702	1-164-159-11	CERAMIC	0.1uF	50V
C795	1-161-379-00	CERAMIC	0.01uF	20% 25V

When indicating parts by reference number, please include the board name.

DIGITAL

VIDEO

Ref. No.	Part No.	Description	Remark
C796	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C797	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C798	1-161-379-00	CERAMIC 0.01uF 20% 25V	
C799	1-161-379-00	CERAMIC 0.01uF 20% 25V	

&lt; JACK &gt;

CNJ701	1-562-981-21	JACK (CONTROL S OUT VIDEO 2)	
CNJ702	1-562-981-21	JACK (CONTROL S OUT VIDEO 1)	

&lt; CONNECTOR &gt;

CNP401 *	1-564-339-00	PIN, CONNECTOR 5P	
CNP601 *	1-564-506-11	PLUG, CONNECTOR 3P	
CNP602 *	1-564-505-11	PLUG, CONNECTOR 2P	
CNP603 *	1-564-505-11	PLUG, CONNECTOR 2P	
CNP604 *	1-564-505-11	PLUG, CONNECTOR 2P	
CNP605 *	1-564-340-00	PIN, CONNECTOR 6P	
CNP701	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S OUT TUNER)	
CNP702	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S OUT CD 2)	
CNP703	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S OUT CD 1)	
CNP704	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S OUT TAPE 2)	
CNP705	1-564-980-11	PIN, CONNECTOR 4P (CONTROL S OUT TAPE 1)	

&lt; DIODE &gt;

D601	8-719-988-67	DIODE FC52M-4. 5. 6	
D602	8-719-988-67	DIODE FC52M-4. 5. 6	
D603	8-719-912-20	DIODE 1SS120	
D604	8-719-912-20	DIODE 1SS120	
D605	8-719-912-20	DIODE 1SS120	
D606	8-719-912-20	DIODE 1SS120	
D607	8-719-988-67	DIODE FC52M-4. 5. 6	
D608	8-719-912-20	DIODE 1SS120	
D609	8-719-912-20	DIODE 1SS120	
D610	8-719-912-20	DIODE 1SS120	
D611	8-719-912-20	DIODE 1SS120	
D612	8-719-988-67	DIODE FC52M-4. 5. 6	
D701	8-719-912-20	DIODE 1SS120	
D702	8-719-912-20	DIODE 1SS120	
D703	8-719-912-20	DIODE 1SS120	
D704	8-719-912-20	DIODE 1SS120	
D705	8-719-912-20	DIODE 1SS120	
D706	8-719-912-20	DIODE 1SS120	
D707	8-719-912-20	DIODE 1SS120	

&lt; FERRITE BEAD &gt;

FB601	1-410-397-21	FERRITE BEAD INDUCTOR	
FB602	1-410-397-21	FERRITE BEAD INDUCTOR	
FB603	1-410-397-21	FERRITE BEAD INDUCTOR	
FB604	1-410-397-21	FERRITE BEAD INDUCTOR	
FB605	1-410-397-21	FERRITE BEAD INDUCTOR	
FB701	1-410-397-21	FERRITE BEAD INDUCTOR	

Ref. No.	Part No.	Description	Remark
FB702	1-410-397-21	FERRITE BEAD INDUCTOR	
FB703	1-410-397-21	FERRITE BEAD INDUCTOR	
FB704	1-410-397-21	FERRITE BEAD INDUCTOR	
FB705	1-410-397-21	FERRITE BEAD INDUCTOR	
FB706	1-410-397-21	FERRITE BEAD INDUCTOR	
FB707	1-410-397-21	FERRITE BEAD INDUCTOR	

&lt; IC &gt;

IC401	8-759-030-67	IC MC14576AP	
IC402	8-759-030-67	IC MC14576AP	
IC403	8-759-805-15	IC LC7823	
IC601	8-759-927-29	IC SN74HCU04NS	
IC602	8-759-135-80	IC uPC358C	
IC603	8-759-927-29	IC SN74HCU04NS	
IC604	8-752-336-78	IC CXD2520Q	
IC605	8-759-822-79	IC LC3517RM-15	
IC606	8-759-135-80	IC uPC358C	
IC607	8-759-927-29	IC SN74HCU04NS	
IC608	8-759-634-51	IC M5218AP	
IC609	8-759-504-36	IC CS5339-KP	
IC610	8-759-927-29	IC SN74HCU04NS	
IC611	8-752-336-78	IC CXD2520Q	
IC612	8-759-822-79	IC LC3517RM-15	
IC613	8-759-135-80	IC uPC358C	
IC614	8-759-927-29	IC SN74HCU04NS	
IC615	8-759-634-51	IC M5218AP	
IC616	8-759-504-36	IC CS5339-KP	
IC617	8-759-927-29	IC SN74HCU04NS	
IC618	8-752-336-78	IC CXD2520Q	
IC619	8-759-822-79	IC LC3517RM-15	
IC620	8-759-135-80	IC uPC358C	
IC621	8-759-927-29	IC SN74HCU04NS	
IC622	8-759-604-35	IC M5F78M05L	
IC623	8-759-982-52	IC RC79M05FA	
IC624	8-749-921-11	IC GP1F32R (DIGITAL INPUT OPTICAL)	

&lt; JACK &gt;

J402	1-565-319-11	JACK, PIN 2P (VIDEO 2 IN/OUT)	
J403	1-565-351-21	JACK, PIN 3P (VIDEO 1 IN/OUT, MONITOR OUT)	

&lt; COIL &gt;

L401	1-410-324-11	INDUCTOR	4. 7uH
L402	1-410-324-11	INDUCTOR	4. 7uH
L403	1-410-324-11	INDUCTOR	4. 7uH
L404	1-410-324-11	INDUCTOR	4. 7uH
L601	1-410-324-11	INDUCTOR	4. 7uH

When indicating parts by reference number, please include the board name.

## DIGITAL

## VIDEO

Ref. No.	Part No.	Description	Remark
L602	1-410-324-11	INDUCTOR 4.7uH	
L603	1-410-324-11	INDUCTOR 4.7uH	
L604	1-410-324-11	INDUCTOR 4.7uH	
L605	1-410-324-11	INDUCTOR 4.7uH	
L606	1-410-324-11	INDUCTOR 4.7uH	
L607	1-410-324-11	INDUCTOR 4.7uH	
L608	1-410-324-11	INDUCTOR 4.7uH	
L609	1-410-324-11	INDUCTOR 4.7uH	
L610	1-410-324-11	INDUCTOR 4.7uH	
L611	1-410-324-11	INDUCTOR 4.7uH	
L612	1-410-324-11	INDUCTOR 4.7uH	
L613	1-410-324-11	INDUCTOR 4.7uH	
L614	1-410-324-11	INDUCTOR 4.7uH	
L615	1-410-324-11	INDUCTOR 4.7uH	
L616	1-410-324-11	INDUCTOR 4.7uH	
L617	1-410-324-11	INDUCTOR 4.7uH	
L618	1-410-324-11	INDUCTOR 4.7uH	
L619	1-410-324-11	INDUCTOR 4.7uH	
L620	1-410-324-11	INDUCTOR 4.7uH	
L621	1-410-324-11	INDUCTOR 4.7uH	
L622	1-410-324-11	INDUCTOR 4.7uH	
L623	1-410-324-11	INDUCTOR 4.7uH	
L624	1-410-324-11	INDUCTOR 4.7uH	
L625	1-410-324-11	INDUCTOR 4.7uH	
L626	1-410-324-11	INDUCTOR 4.7uH	
L701	1-410-324-11	INDUCTOR 4.7uH	

## &lt; TRANSISTOR &gt;

Q401	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q402	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q403	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q404	8-729-119-76	TRANSISTOR 2SA1175-HFE	
Q405	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q701	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q702	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q703	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q704	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q705	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q706	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q707	8-729-900-63	TRANSISTOR DTA124ES	
Q708	8-729-620-05	TRANSISTOR 2SC2603-EF	
Q709	8-729-900-63	TRANSISTOR DTA124ES	

## &lt; RESISTOR &gt;

R402	1-247-804-11	CARBON 75 5% 1/4W	
R403	1-247-804-11	CARBON 75 5% 1/4W	
R404	1-249-403-11	CARBON 68 5% 1/4W	
R405	1-249-429-11	CARBON 10K 5% 1/4W	
R406	1-249-403-11	CARBON 68 5% 1/4W	

Ref. No.	Part No.	Description	Remark
R407	1-249-429-11	CARBON 10K 5% 1/4W	
R408	1-249-403-11	CARBON 68 5% 1/4W	
R409	1-249-429-11	CARBON 10K 5% 1/4W	
R410	1-249-403-11	CARBON 68 5% 1/4W	
R411	1-249-429-11	CARBON 10K 5% 1/4W	
R412	1-249-413-11	CARBON 470 5% 1/4W	
R413	1-249-421-11	CARBON 2.2K 5% 1/4W	
R414	1-249-413-11	CARBON 470 5% 1/4W	
R415	1-249-421-11	CARBON 2.2K 5% 1/4W	
R416	1-249-413-11	CARBON 470 5% 1/4W	
R417	1-249-405-11	CARBON 100 5% 1/4W	
R418	1-249-413-11	CARBON 470 5% 1/4W	
R419	1-249-421-11	CARBON 2.2K 5% 1/4W	
R420	1-247-887-00	CARBON 220K 5% 1/4W	
R421	1-249-441-11	CARBON 100K 5% 1/4W	
R422	1-247-887-00	CARBON 220K 5% 1/4W	
R423	1-249-441-11	CARBON 100K 5% 1/4W	
R424	1-249-428-11	CARBON 8.2K 5% 1/4W	
R425	1-247-895-00	CARBON 470K 5% 1/4W	
R426	1-249-422-11	CARBON 2.7K 5% 1/4W	
R427	1-247-887-00	CARBON 220K 5% 1/4W	
R428	1-249-441-11	CARBON 100K 5% 1/4W	
R429	1-249-429-11	CARBON 10K 5% 1/4W	
R601	1-247-804-11	CARBON 75 5% 1/4W	
R602	1-249-437-11	CARBON 47K 5% 1/4W	
R603	1-249-421-11	CARBON 2.2K 5% 1/4W	
R604	1-249-429-11	CARBON 10K 5% 1/4W	
R605	1-249-429-11	CARBON 10K 5% 1/4W	
R606	1-247-852-11	CARBON 7.5K 5% 1/4W	
R607	1-249-421-11	CARBON 2.2K 5% 1/4W	
R608	1-249-429-11	CARBON 10K 5% 1/4W	
R609	1-249-431-11	CARBON 15K 5% 1/4W	
R610	1-249-429-11	CARBON 10K 5% 1/4W	
R611	1-249-429-11	CARBON 10K 5% 1/4W	
R612	1-247-852-11	CARBON 7.5K 5% 1/4W	
R613	1-249-421-11	CARBON 2.2K 5% 1/4W	
R614	1-249-429-11	CARBON 10K 5% 1/4W	
R615	1-249-431-11	CARBON 15K 5% 1/4W	
R616	1-249-429-11	CARBON 10K 5% 1/4W	
R617	1-249-429-11	CARBON 10K 5% 1/4W	
R618	1-249-441-11	CARBON 100K 5% 1/4W	
R619	1-249-441-11	CARBON 100K 5% 1/4W	
R620	1-249-441-11	CARBON 100K 5% 1/4W	
R621	1-249-441-11	CARBON 100K 5% 1/4W	
R622	1-249-441-11	CARBON 100K 5% 1/4W	
R623	1-249-441-11	CARBON 100K 5% 1/4W	
R624	1-249-407-11	CARBON 150 5% 1/4W	
R625	1-249-407-11	CARBON 150 5% 1/4W	
R626	1-247-895-00	CARBON 470K 5% 1/4W	

When indicating parts by reference number, please include the board name.

DIGITAL

VIDEO

PANEL

POWER SUPPLY (1)

SELECT

TA-DM1000ES

MOTOR VOLUME

TONE

MUTING

POWER 2

VIDEO (F)

HEADPHONES

RECEIVE

VOL LED

Ref. No.	Part No.	Description	Remark		
R627	1-249-393-11	CARBON	10	5%	1/4W
R628	1-249-429-11	CARBON	10K	5%	1/4W
R629	1-249-429-11	CARBON	10K	5%	1/4W
R630	1-247-852-11	CARBON	7.5K	5%	1/4W
R631	1-249-421-11	CARBON	2.2K	5%	1/4W
R632	1-249-429-11	CARBON	10K	5%	1/4W
R633	1-249-431-11	CARBON	15K	5%	1/4W
R634	1-249-429-11	CARBON	10K	5%	1/4W
R635	1-249-429-11	CARBON	10K	5%	1/4W
R636	1-249-441-11	CARBON	100K	5%	1/4W
R637	1-249-441-11	CARBON	100K	5%	1/4W
R638	1-249-441-11	CARBON	100K	5%	1/4W
R639	1-249-441-11	CARBON	100K	5%	1/4W
R640	1-249-441-11	CARBON	100K	5%	1/4W
R641	1-249-441-11	CARBON	100K	5%	1/4W
R642	1-249-407-11	CARBON	150	5%	1/4W
R643	1-249-407-11	CARBON	150	5%	1/4W
R644	1-247-895-00	CARBON	470K	5%	1/4W
R645	1-249-393-11	CARBON	10	5%	1/4W
R646	1-249-411-11	CARBON	330	5%	1/4W
R647	1-247-903-00	CARBON	1M	5%	1/4W
R648	1-249-429-11	CARBON	10K	5%	1/4W
R649	1-249-429-11	CARBON	10K	5%	1/4W
R650	1-247-852-11	CARBON	7.5K	5%	1/4W
R651	1-249-421-11	CARBON	2.2K	5%	1/4W
R652	1-249-429-11	CARBON	10K	5%	1/4W
R653	1-249-431-11	CARBON	15K	5%	1/4W
R654	1-249-429-11	CARBON	10K	5%	1/4W
R655	1-249-429-11	CARBON	10K	5%	1/4W
R656	1-249-411-11	CARBON	330	5%	1/4W
R657	1-249-411-11	CARBON	330	5%	1/4W
R660	1-249-411-11	CARBON	330	5%	1/4W
R662	1-249-411-11	CARBON	330	5%	1/4W
R666	1-249-411-11	CARBON	330	5%	1/4W
R667	1-249-411-11	CARBON	330	5%	1/4W
R668	1-249-411-11	CARBON	330	5%	1/4W
R701	1-249-429-11	CARBON	10K	5%	1/4W
R702	1-249-429-11	CARBON	10K	5%	1/4W
R703	1-249-393-11	CARBON	10	5%	1/4W
R704	1-249-429-11	CARBON	10K	5%	1/4W
R705	1-249-429-11	CARBON	10K	5%	1/4W
R706	1-249-393-11	CARBON	10	5%	1/4W
R707	1-249-429-11	CARBON	10K	5%	1/4W
R708	1-249-429-11	CARBON	10K	5%	1/4W
R709	1-249-393-11	CARBON	10	5%	1/4W
R710	1-249-429-11	CARBON	10K	5%	1/4W
R711	1-249-429-11	CARBON	10K	5%	1/4W
R712	1-249-393-11	CARBON	10	5%	1/4W
R713	1-249-429-11	CARBON	10K	5%	1/4W

Ref. No.	Part No.	Description	Remark		
R714	1-249-429-11	CARBON	10K	5%	1/4W
R715	1-249-393-11	CARBON	10	5%	1/4W
R716	1-249-429-11	CARBON	10K	5%	1/4W
R717	1-249-417-11	CARBON	1K	5%	1/4W
R718	1-249-417-11	CARBON	1K	5%	1/4W
R719	1-249-429-11	CARBON	10K	5%	1/4W
R720	1-249-417-11	CARBON	1K	5%	1/4W
R721	1-249-417-11	CARBON	1K	5%	1/4W
< COIL >					
T601	1-460-098-11	COIL (2.2uH)			
T602	1-460-099-11	COIL (3.3uH)			
T603	1-460-099-11	COIL (3.3uH)			
T604	1-460-099-11	COIL (3.3uH)			
< CONNECTOR >					
TP601	* 1-560-060-00	PIN, CONNECTOR 2P			
TP602	* 1-560-060-00	PIN, CONNECTOR 2P			
TP603	* 1-560-060-00	PIN, CONNECTOR 2P			
TP604	* 1-560-060-00	PIN, CONNECTOR 2P			
< CRYSTAL >					
XT601	1-579-178-11	VIBRATOR, CRYSTAL (11.2896MHz)			
*****					
* A-4341-456-A PANEL BOARD, COMPLETE					
*****					
* A-4341-454-A POWER SUPPLY (1) BOARD, COMPLETE					
*****					
* 1-638-076-11 SELECT BOARD					
*****					
* 1-638-078-11 MOTOR VOLUME BOARD					
*****					
* 1-638-079-11 TONE BOARD					
*****					
* 1-638-080-11 MUTING BOARD					
*****					
* 1-638-081-11 POWER 2 BOARD					
*****					
* 1-638-082-11 VIDEO (F) BOARD					
*****					
* 1-638-083-11 HEADPHONES BOARD					
*****					
* 1-638-084-11 RECEIVE BOARD					
*****					
* 1-638-085-11 VOL LED BOARD					
*****					
1-533-225-11 HOLDER, FUSE					
1-533-225-11 HOLDER, FUSE					
* 3-309-144-21 HEAT SINK					
* 3-346-266-12 PLATE, GROUND					
7-682-548-04 SCREW +BVT 3X8 (S)					

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark
< CAPACITOR >			
C199	1-164-159-11	CERAMIC 0.1uF	50V
C301	1-123-369-00	ELECT 4.7uF	20% 50V
C302	1-123-369-00	ELECT 4.7uF	20% 50V
C303	1-126-059-11	ELECT 10uF	20% 50V
C304	1-136-154-00	FILM 0.012uF	5% 50V
C305	1-136-154-00	FILM 0.012uF	5% 50V
C306	1-136-154-00	FILM 0.012uF	5% 50V
C307	1-136-154-00	FILM 0.012uF	5% 50V
C308	1-130-473-00	MYLAR 0.0015uF	5% 50V
C309	1-130-473-00	MYLAR 0.0015uF	5% 50V
C310	1-164-070-11	CERAMIC 100PF	5% 50V
C311	1-164-070-11	CERAMIC 100PF	5% 50V
C312	1-164-062-11	CERAMIC 47PF	5% 50V
C313	1-164-062-11	CERAMIC 47PF	5% 50V
C314	1-123-380-00	ELECT 1uF	20% 50V
C315	1-123-380-00	ELECT 1uF	20% 50V
C316	1-126-059-11	ELECT 10uF	20% 50V
C317	1-126-059-11	ELECT 10uF	20% 50V
C318	1-123-369-00	ELECT 4.7uF	20% 50V
C319	1-123-369-00	ELECT 4.7uF	20% 50V
C320	1-126-157-11	ELECT 10uF	20% 16V
C321	1-124-273-00	ELECT 3.3uF	20% 50V
C399	1-161-379-00	CERAMIC 0.01uF	20% 25V
C501	1-126-157-11	ELECT 10uF	20% 16V
C502	1-164-159-11	CERAMIC 0.1uF	50V
C503	1-126-157-11	ELECT 10uF	20% 16V
C504	1-164-159-11	CERAMIC 0.1uF	50V
C901	▲ 1-161-744-00	CERAMIC 0.01uF	400V
C902	▲ 1-136-279-11	FILM 0.047uF	20% 250V
C917	1-101-004-00	CERAMIC 0.01uF	50V
C918	1-101-004-00	CERAMIC 0.01uF	50V
C919	1-124-557-11	ELECT 1000uF	20% 25V
C920	1-123-875-11	ELECT 10uF	20% 50V
C921	1-164-073-11	CERAMIC 100PF	10% 50V
C922	1-124-477-11	ELECT 47uF	20% 25V
C923	1-123-875-11	ELECT 10uF	20% 50V
C924	1-124-464-11	ELECT 0.22uF	20% 50V
C925	1-124-902-00	ELECT 0.47uF	20% 50V
C926	1-101-004-00	CERAMIC 0.01uF	50V

## &lt; CONNECTOR &gt;

CNJ301	1-569-348-11	JACK, LARGE TYPE (HEADPHONES)
CNJ901	▲ 1-540-061-11	OUTLET, AC (POLAR)
CNJ902	▲ 1-540-061-11	OUTLET, AC (POLAR)

Ref. No.	Part No.	Description	Remark
CNP301	* 1-564-506-11	PLUG, CONNECTOR 3P	
CNP302	* 1-564-506-41	PLUG, CONNECTOR 3P	
CNP304	* 1-564-337-00	PIN, CONNECTOR 3P	
CNP401	* 1-564-517-11	PLUG, CONNECTOR 2P	
CNP402	* 1-564-518-11	PLUG, CONNECTOR 3P	
CNP901	* 1-564-321-00	PIN, CONNECTOR 2P	
CNP902	1-568-106-11	PIN, CONNECTOR 4P	
CNP906	* 1-564-505-11	PLUG, CONNECTOR 2P	
< DIODE >			
D501	8-719-301-52	DIODE SEL2810A-C (VIDEO 1 LINK)	
D502	8-719-301-52	DIODE SEL2810A-C (VIDEO 2 LINK)	
D503	8-719-301-52	DIODE SEL2810A-C (TAPE 1 LINK)	
D504	8-719-301-52	DIODE SEL2810A-C (TAPE 2/DAT LINK)	
D505	8-719-301-52	DIODE SEL2810A-C (CD 1 LINK)	
D506	8-719-301-52	DIODE SEL2810A-C (CD 2 LINK)	
D507	8-719-301-52	DIODE SEL2810A-C (TUNER LINK)	
D508	8-719-303-00	DIODE SEL2510C-C (VIDEO 1 MASTER)	
D509	8-719-303-00	DIODE SEL2510C-C (VIDEO 2 MASTER)	
D510	8-719-303-00	DIODE SEL2510C-C (TV/AUX MASTER)	
D511	8-719-303-00	DIODE SEL2510C-C (TAPE 1 MASTER)	
D512	8-719-303-00	DIODE SEL2510C-C (TAPE 2/DAT MASTER)	
D513	8-719-303-00	DIODE SEL2510C-C (CD 1 MASTER)	
D514	8-719-303-00	DIODE SEL2510C-C (CD 2 MASTER)	
D515	8-719-303-00	DIODE SEL2510C-C (TUNER MASTER)	
D516	8-719-301-38	DIODE SEL2210S-C (VIDEO 1 REC)	
D517	8-719-301-38	DIODE SEL2210S-C (VIDEO 2 REC)	
D518	8-719-301-38	DIODE SEL2210S-C (TAPE 1 REC)	
D519	8-719-301-38	DIODE SEL2210S-C (TAPE 2/DAT REC)	
D520	8-719-301-49	DIODE SEL2810A (PRIORITY)	
D521	8-719-301-39	DIODE SEL2210S-TH10 (ERROR)	
D522	8-719-301-49	DIODE SEL2810A (ADAPTOR)	
D523	8-719-303-00	DIODE SEL2510C-C (VIDEO 3)	
D524	8-719-301-39	DIODE SEL2210S-TH10 (STANDBY)	
D525	8-719-301-49	DIODE SEL2810A (-20dB)	
D526	8-719-912-20	DIODE 1SS120	
D527	8-719-912-20	DIODE 1SS120	
D528	8-719-912-20	DIODE 1SS120	
D529	8-719-303-00	DIODE SEL2510C-C (VOLUME)	
D714	8-719-118-33	PHOTODIODE PH302D	
D909	8-719-200-82	DIODE 11ES2	
D910	8-719-200-82	DIODE 11ES2	
D911	8-719-200-82	DIODE 11ES2	
D912	8-719-200-82	DIODE 11ES2	
D917	8-719-912-20	DIODE 1SS120	
D918	8-719-912-20	DIODE 1SS120	

**Note:**

The components identified by mark ▲ or dotted line with mark ▲ are critical for safety. Replace only with part number specified.

**Note:**

Les composants identifiés par une marque ▲ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.



Ref. No.	Part No.	Description	Remark	Ref. No.	Part No.	Description	Remark
D919	8-719-912-20	DIODE 1SS120		R309	1-249-435-11	CARBON 33K	5% 1/4W
D920	8-719-933-41	DIODE HZS6C3L		R310	1-249-435-11	CARBON 33K	5% 1/4W
D921	8-719-933-41	DIODE HZS6C3L		R311	1-249-435-11	CARBON 33K	5% 1/4W
D922	8-719-914-11	DIODE HZ4ALL		R312	1-249-435-11	CARBON 33K	5% 1/4W
D923	8-719-912-20	DIODE 1SS120		R313	1-249-428-11	CARBON 8. 2K	5% 1/4W
< IC >				R314	1-249-428-11	CARBON 8. 2K	5% 1/4W
IC301	8-759-634-51	IC M5218AP		R315	1-249-417-11	CARBON 1K	5% 1/4W
IC302	8-759-820-62	IC LB1639		R316	1-249-417-11	CARBON 1K	5% 1/4W
IC501	8-759-635-95	IC M66313FP		R401	1-247-804-11	CARBON 75	5% 1/4W
IC502	8-749-922-36	IC GP1U50XB		R501	1-249-414-11	CARBON 560	5% 1/4W
IC901	8-759-604-39	IC M5F78M12L		R502	1-249-414-11	CARBON 560	5% 1/4W
IC902	8-759-604-45	IC M5F79M12L		R503	1-249-414-11	CARBON 560	5% 1/4W
IC905	8-759-604-29	IC M5F7805L		R504	1-249-414-11	CARBON 560	5% 1/4W
IC906	8-759-634-32	IC M5278D15		R505	1-249-414-11	CARBON 560	5% 1/4W
< JACK >				R506	1-249-414-11	CARBON 560	5% 1/4W
J401	1-563-136-31	JACK, PIN 3P (VIDEO 3 VIDEO, AUDIO L/R)		R507	1-249-414-11	CARBON 560	5% 1/4W
< COIL >				R508	1-249-410-11	CARBON 270	5% 1/4W
L501	1-410-324-11	INDUCTOR 4. 7uH		R509	1-249-410-11	CARBON 270	5% 1/4W
L502	1-410-324-11	INDUCTOR 4. 7uH		R510	1-249-410-11	CARBON 270	5% 1/4W
< TRANSISTOR >				R511	1-249-410-11	CARBON 270	5% 1/4W
Q301	8-729-141-30	TRANSISTOR 2SC3623A-LK		R512	1-249-410-11	CARBON 270	5% 1/4W
Q302	8-729-141-30	TRANSISTOR 2SC3623A-LK		R513	1-249-410-11	CARBON 270	5% 1/4W
Q305	8-729-900-61	TRANSISTOR DTA114ES		R514	1-249-410-11	CARBON 270	5% 1/4W
Q501	8-729-900-80	TRANSISTOR DTC114ES		R515	1-249-410-11	CARBON 270	5% 1/4W
Q901	8-729-620-05	TRANSISTOR 2SC2603-EF		R516	1-249-417-11	CARBON 1K	5% 1/4W
Q902	8-729-209-15	TRANSISTOR 2SD2012		R517	1-249-417-11	CARBON 1K	5% 1/4W
Q903	8-729-119-76	TRANSISTOR 2SA1175-HFE		R518	1-249-417-11	CARBON 1K	5% 1/4W
Q904	8-729-620-05	TRANSISTOR 2SC2603-EF		R519	1-249-417-11	CARBON 1K	5% 1/4W
Q905	8-729-119-76	TRANSISTOR 2SA1175-HFE		R520	1-249-414-11	CARBON 560	5% 1/4W
Q906	8-729-900-63	TRANSISTOR DTA124ES		R521	1-249-417-11	CARBON 1K	5% 1/4W
Q907	8-729-620-05	TRANSISTOR 2SC2603-EF		R522	1-249-414-11	CARBON 560	5% 1/4W
Q908	8-729-900-89	TRANSISTOR DTC144ES		R523	1-249-415-11	CARBON 680	5% 1/4W
< RESISTOR >				R524	1-249-417-11	CARBON 1K	5% 1/4W
R166	1-249-417-11	CARBON 1K	5% 1/4W	R525	1-249-414-11	CARBON 560	5% 1/4W
R167	1-249-417-11	CARBON 1K	5% 1/4W	R526	1-249-411-11	CARBON 330	5% 1/4W
R223	1-247-887-00	CARBON 220K	5% 1/4W	R527	1-249-429-11	CARBON 10K	5% 1/4W
R224	1-247-887-00	CARBON 220K	5% 1/4W	R528	1-249-429-11	CARBON 10K	5% 1/4W
R302	1-249-421-11	CARBON 2. 2K	5% 1/4W	R529	1-249-429-11	CARBON 10K	5% 1/4W
R304	1-249-441-11	CARBON 100K	5% 1/4W	R530	1-249-429-11	CARBON 10K	5% 1/4W
R305	1-249-417-11	CARBON 1K	5% 1/4W	R531	1-249-429-11	CARBON 10K	5% 1/4W
R306	1-249-417-11	CARBON 1K	5% 1/4W	R532	1-249-429-11	CARBON 10K	5% 1/4W
R307	1-249-405-11	CARBON 100	5% 1/4W	R533	1-249-429-11	CARBON 10K	5% 1/4W
R308	1-249-405-11	CARBON 100	5% 1/4W	R534	1-249-429-11	CARBON 10K	5% 1/4W
				R535	1-249-429-11	CARBON 10K	5% 1/4W
				R536	1-249-429-11	CARBON 10K	5% 1/4W
				R780	1-249-429-11	CARBON 10K	5% 1/4W
				R781	1-249-423-11	CARBON 3. 3K	5% 1/4W
				R782	1-249-423-11	CARBON 3. 3K	5% 1/4W
				R783	1-249-423-11	CARBON 3. 3K	5% 1/4W

When indicating parts by refer-  
ence number, please include  
the board name.

Ref. No.	Part No.	Description	Remark		
R784	1-249-423-11	CARBON	3.3K	5%	1/4W
R785	1-249-423-11	CARBON	3.3K	5%	1/4W
R786	1-249-423-11	CARBON	3.3K	5%	1/4W
R901	△ 1-202-725-00	SOLID	3.3M	10%	1/2W
R902	1-247-691-11	CARBON	18	5%	1/4W
R903	1-249-425-11	CARBON	4.7K	5%	1/4W
R904	1-249-425-11	CARBON	4.7K	5%	1/4W
R905	1-249-417-11	CARBON	1K	5%	1/4W
R906	1-249-433-11	CARBON	22K	5%	1/4W
R907	1-249-429-11	CARBON	10K	5%	1/4W
R908	1-249-417-11	CARBON	1K	5%	1/4W
R909	1-249-429-11	CARBON	10K	5%	1/4W
R910	1-249-429-11	CARBON	10K	5%	1/4W
R911	1-249-426-11	CARBON	5.6K	5%	1/4W
R912	1-249-426-11	CARBON	5.6K	5%	1/4W
R913	1-247-895-00	CARBON	470K	5%	1/4W
R914	1-249-417-11	CARBON	1K	5%	1/4W
R915	1-249-423-11	CARBON	3.3K	5%	1/4W

## &lt; VARIABLE RESISTOR &gt;

RV301	1-237-886-11	RES. VAR. CARBON 100K/100K (BALANCE)
RV302	1-241-309-11	RES. VAR. CARBON 100K/100K (TREBLE)
RV303	1-241-309-11	RES. VAR. CARBON 100K/100K (BASS)
RV304	1-241-320-11	RES. VAR. CARBON 120KX2 (VOLUME)

## &lt; RELAY &gt;

RY901 △ 1-515-701-11 RELAY

## &lt; SWITCH &gt;

S501	1-554-303-21	SWITCH, TACTILE (VIDEO 1)
S502	1-554-303-21	SWITCH, TACTILE (VIDEO 2)
S503	1-554-303-21	SWITCH, TACTILE (TV/AUX)
S504	1-554-303-21	SWITCH, TACTILE (TAPE 1)
S505	1-554-303-21	SWITCH, TACTILE (TAPE 2/DAT)
S506	1-554-303-21	SWITCH, TACTILE (CD 1)
S507	1-554-303-21	SWITCH, TACTILE (CD 2)
S508	1-554-303-21	SWITCH, TACTILE (TUNER)
S509	1-554-303-21	SWITCH, TACTILE (VIDEO 3)
S510	1-554-303-21	SWITCH, TACTILE (ADAPTOR)
S511	1-554-303-21	SWITCH, TACTILE (REC SELECT)
S512	1-554-303-21	SWITCH, TACTILE (CLEAR)
S513	1-554-303-21	SWITCH, TACTILE (POWER ON/OFF)
S514	1-554-303-21	SWITCH, TACTILE (▶)
S515	1-554-303-21	SWITCH, TACTILE (■)
S516	1-554-303-21	SWITCH, TACTILE (■)
S517	1-554-303-21	SWITCH, TACTILE (◀◀)
S518	1-554-303-21	SWITCH, TACTILE (▶▶)
S519	1-554-303-21	SWITCH, TACTILE (◀◀)
S520	1-554-303-21	SWITCH, TACTILE (▶▶)

Ref. No.	Part No.	Description	Remark
S521	1-554-303-21	SWITCH, TACTILE (POWER OFF)	
S522	1-554-303-21	SWITCH, TACTILE (RESET)	
S523	1-554-303-21	SWITCH, TACTILE (MUTING)	
S524	1-572-562-11	SWITCH, SLIDE (USER/LEARN)	
S780	1-572-559-11	SWITCH, SLIDE (TAPE 2/DAT)	
S781	1-572-561-11	SWITCH, SLIDE (VIDEO 1/2/3/LD)	
S782	1-572-560-11	SWITCH, SLIDE (VIDEO 1/2/3)	

## &lt; LINE FILTER &gt;

T903 △ 1-421-960-11 TRANSFORMER, LINE FILTER

\*\*\*\*\*

MISCELLANEOUS  
\*\*\*\*\*

30	1-465-655-11	REMOTE COMMANDER (RM-P1) including 31-33
69	1-559-479-11	CORD, POWER
CNJ301	1-569-348-11	JACK LARGE TYPE
F901	△ 1-532-739-11	FUSE, GLASS TUBE
RF801	1-466-468-11	RF MODULATOR
RV301	1-237-886-11	RES. VAR. CARBON 100K/100K
RV302	1-241-309-11	RES. VAR. CARBON 100K/100K
RV303	1-241-309-11	RES. VAR. CARBON 100K/100K
RV304	1-241-320-11	RES. VAR. CARBON 120KX2
T901	△ 1-450-279-11	TRANSFORMER, POWER
T902	△ 1-450-281-11	TRANSFORMER, POWER

\*\*\*\*\*

## ACCESSORY &amp; PACKING MATERIAL

1-239-019-11	ENCAPSULATED COMPONENT (MX-RF1)
1-417-141-11	MATCHING TRANSFORMER, ANTENNA
1-551-841-11	CORD, CONNECTION (RK-69A)
1-558-233-11	CORD (WITH CONNECTOR) (SIRCS) 4P
3-752-811-21	MANUAL, INSTRUCTION (DLS-M1) (ENGLISH)
3-752-811-31	MANUAL, INSTRUCTION (DLS-M1)
	(FRENCH) (Canadian)
4-888-942-02	SCREW DRIVER, ADJUSTMENT
* 4-943-052-01	INDIVIDUAL CARTON (DLS-M1)
* 4-943-054-01	CUSHION (DLS-M1)
4-944-394-01	WINDOW (IR)

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**Note:**

The components identified by mark △ or dotted line with mark △ are critical for safety. Replace only with part number specified.

**Note:**

Les composants identifiés par une marque △ sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

When indicating parts by reference number, please include the board name.

Ref. No.	Part No.	Description	Remark
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**HARDWARE LIST**

#1	7-682-547-09	SCREW +BVTT 3X6 (S)	
#2	7-685-646-79	SCREW +BVTP 3X8 TYPE2 N-S	
#3	7-685-646-79	SCREW, TAPPING	
#4	7-683-255-58	SET SCREW 5X6 HEXAGON SOCKET	
#5	7-682-548-04	SCREW +BVTT 3X8 (S)	
#6	7-682-549-04	SCREW +BVTT 3X10 (S)	
#7	7-682-560-04	SCREW +BVTT 4X6 (S)	
#8	7-685-646-79	SCREW +BTP 3X8 TYPE2 N-S	
#9	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	

When indicating parts by reference number, please include the board name.



# TA-DM1000ES

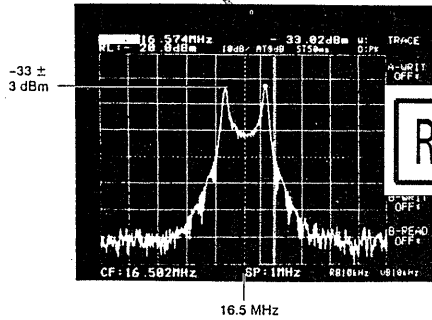
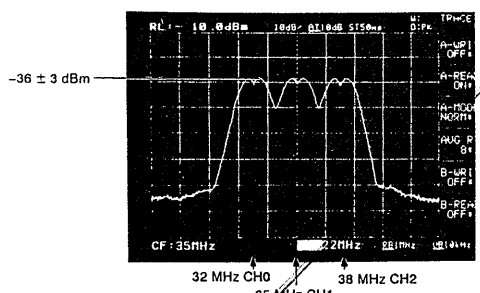
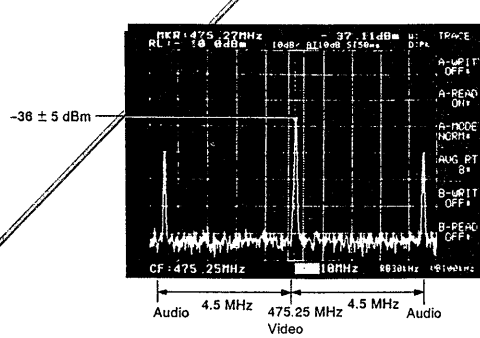
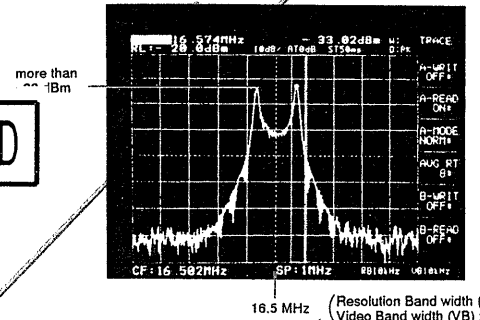
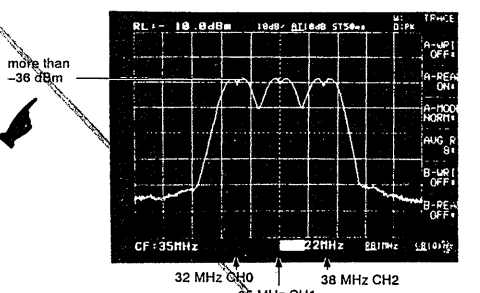
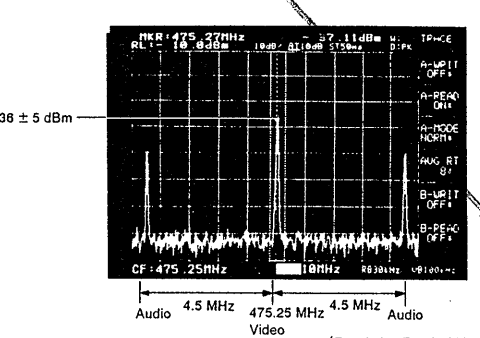
## SONY SERVICE MANUAL

US Model  
Canadian Model

### CORRECTION-1

Please correct your service manual.

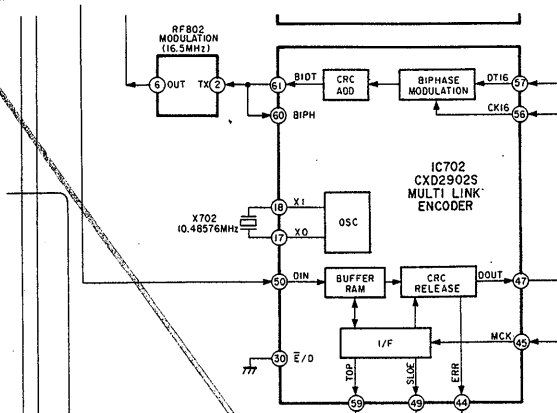
 : Corrected portion

Page	Incorrect	Correct
30	<p><b>[RX Adjustment]</b></p> <p>Adjusting method:</p> <ol style="list-style-type: none"> <li>1. Disconnect CNP807 (+15V) from the board.</li> <li>2. Connect signal generator to "TO DST SIGNAL COMBINER" terminal and input the 5 MHz rectangular waveform (carrier: 15.5 MHz, level: -60 dBm, deviation: 75 kHz, impedance: 75 <math>\Omega</math>).</li> </ol>	<p><b>[RX Adjustment]</b></p> <p>Adjusting method:</p> <ol style="list-style-type: none"> <li>1. Disconnect CNP807 (+15V) from the board.</li> <li>2. Connect signal generator to "TO DST SIGNAL COMBINER" terminal and input the <u>5 kHz</u> rectangular waveform (carrier: 15.5 MHz, level: -60 dBm, deviation: 75 kHz, impedance: 75 <math>\Omega</math>).</li> </ol>
31	<p>• Remote control signal</p>  <p>16.5 MHz</p> <p>• PCM digital signal</p>  <p>32 MHz CH0 35 MHz CH1 38 MHz CH2</p> <p>• Video/audio signal</p>  <p>475.25 MHz</p> <p>Audio 4.5 MHz Video 4.5 MHz Audio</p>	<p>• Remote control signal</p>  <p>16.5 MHz (Resolution Band width (RB) : 10 kHz Video Band width (VB) : 10 kHz)</p> <p>• PCM digital signal</p>  <p>32 MHz CH0 35 MHz CH1 38 MHz CH2 (Resolution Band width (RB) : 1 MHz Video Band width (VB) : 10 kHz)</p> <p>• Video/audio signal</p>  <p>475.25 MHz (Resolution Band width (RB) : 30 kHz Video Band width (VB) : 100 kHz)</p>

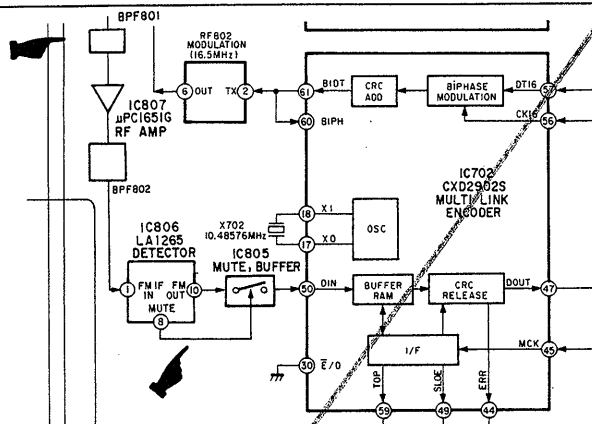
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Page

Incorrect

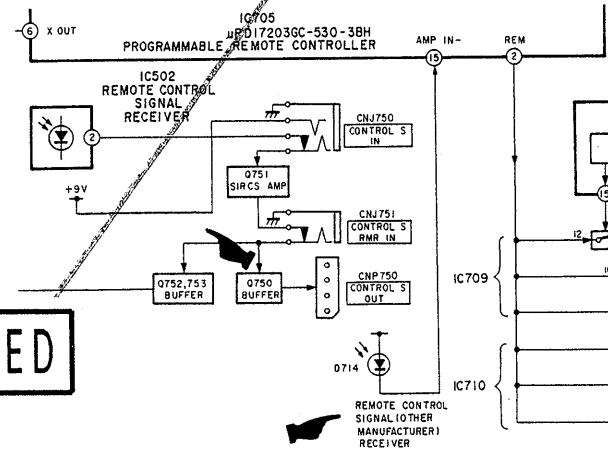
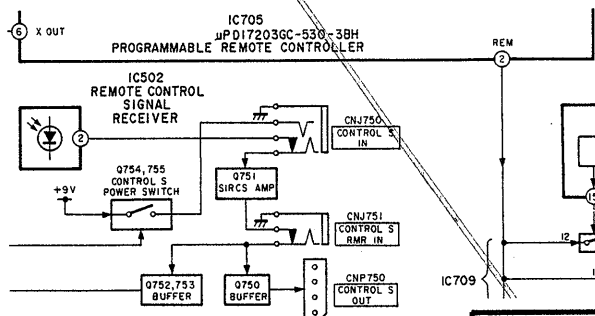


Correct



43

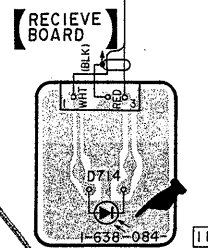
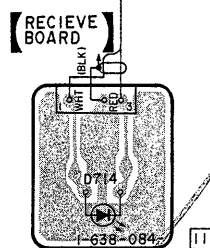
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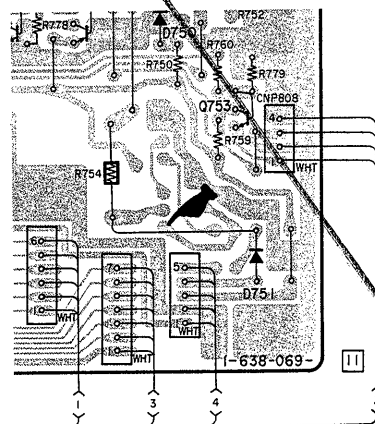
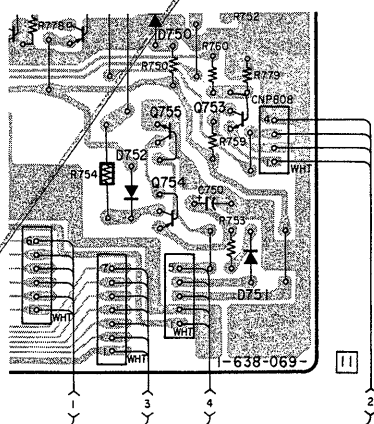
REVISÉD


REMOTE CONTROL  
SIGNAL (OTHER  
MANUFACTURER)  
RECEIVER

62



64



 : Corrected portion

Page

65

Incorrect

Correct

67

REVISÉD

SIRCS

: Corrected portion

